

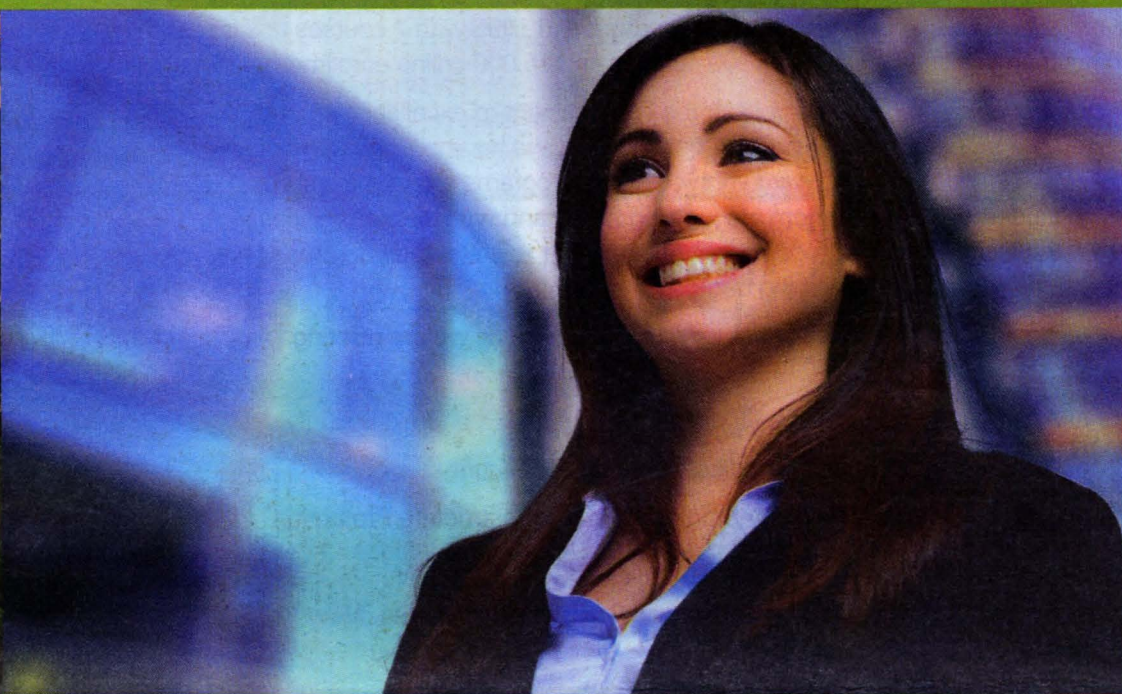


Learning with Purpose

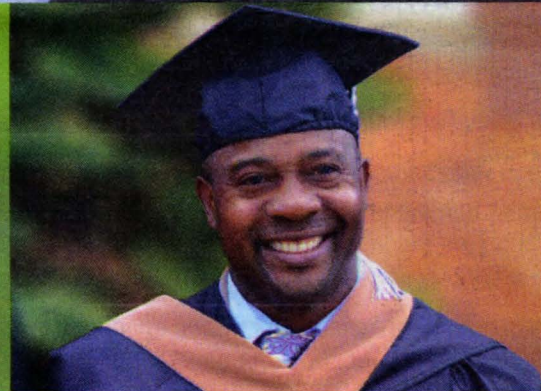
The Division of Online
and Continuing Education
<http://continuinged.uml.edu>

Diane
• 2016
spring

Make an investment
that will *last a lifetime.*



Pursue Your Degree
Online or
on Campus



Spring classes begin January 19, 2016...sign up today!

- 3 Signature Degree Programs
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- 22 General, Academic & Registration Information
- 24 Registration Form & Winter Intersession

Announcing New Online Programs

- Online Marketing Concentration (MBA)
- Online Master's Degrees in Security Studies

Classes begin January 19, 2016
Undergraduate & Graduate Courses



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University of Massachusetts Lowell
The Division of Online and Continuing Education
One University Avenue
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(978) 934-2480
The University uses multiple mailing lists. If you receive
a duplicate copy, please share it with a friend.

Make an Investment That Will Last a Lifetime:

Pursue Your Degree On Campus or Online at UMass Lowell

A Message to our
Online and Continuing
Education students
from Chancellor
Jacqueline Moloney,
a pioneer in online
education:



As I begin work as your new chancellor, I find myself reflecting on the thousands of students who have successfully completed their degrees through the Division of Online and Continuing Education.

Since we first pioneered our innovative online program in 1996 with 7 courses and 87 online enrollments, we have grown to 900 courses and 25,000 online enrollments.

This phenomenal growth is a testament to the commitment to excellence among our colleges and academic departments. Consequently, we have over 50 fully online programs. Our large portfolio of award-winning online programs offers maximum flexibility to students, many of whom are juggling family and work responsibilities. As a result, thousands of adult students have been able to pursue their dreams of continuing their education and earning degrees.

Here are some examples of some of the new online programs we are offering this Spring:

- Master of Arts Degree in Securities Studies: Industrial and Economic Security
- Master of Arts Degree in Security Studies: International Security
- Master of Science Degree in Security Studies: Critical Infrastructure Protection
- Marketing concentration in our online MBA program

(New courses in **Digital Marketing, Sales and Customer Relations, New Product Development, and Market Research**)

- Management courses that provide working professionals with concepts that can be immediately applied to the workplace (i.e courses in **Strategic Management and Business Process Management**)

UMass Lowell is proud of its leadership role in online education.

I hope you will join us this semester in experiencing the excitement at UMass Lowell. Please take the time to review the hundreds of opportunities available in this bulletin to broaden your professional education. You can accelerate your career options through a degree or certificate program offered either online or on-campus.

This is a great time of possibility. Make an investment in your education and begin a new chapter in your life.

Sincerely,

Dr. Jacqueline Moloney,
Chancellor, UMass Lowell

VIRTUAL OPEN HOUSE



Join Us Online for a VIRTUAL OPEN HOUSE!

January 12, 2016 from 6:00-7:00 p.m.

Please join us ONLINE for our Virtual Open House. Program Coordinators and Advisors will be available to answer all your questions. To find out more and to log into the Virtual Open House, visit
<http://continuinged.uml.edu/virtualopenhouse.cfm>

Earn a Master's Degree in Information Technology Online!



This 10-course contemporary degree is technically focused and features cutting-edge knowledge content critical to the workforce needs of the Commonwealth.

Offered fully online, this degree provides a pathway for students who have completed a Bachelor's in Information Technology and for working professionals who want to pursue advanced graduate studies in Information Technology.

The following graduate IT courses will be available this Spring:

- MSIT.5170-031 Operating Systems Foundations
- MSIT.5180-031 Large Scale Application Deployment
- MSIT.5360-031 Data Mining
- MSIT.5410-031 Information Security, Privacy and Regulatory Compliance
- MSIT.5430-031 Intrusion Detection Systems
- MSIT.5600-031 Network Infrastructures
- MSIT.5610-031 Computer Network Security
- MSIT.5630-031 Secure Mobile Networks
- MSIT.5650-031 Cloud Computing

For further information, please visit
<http://continuinged.uml.edu/degrees/msit.cfm>

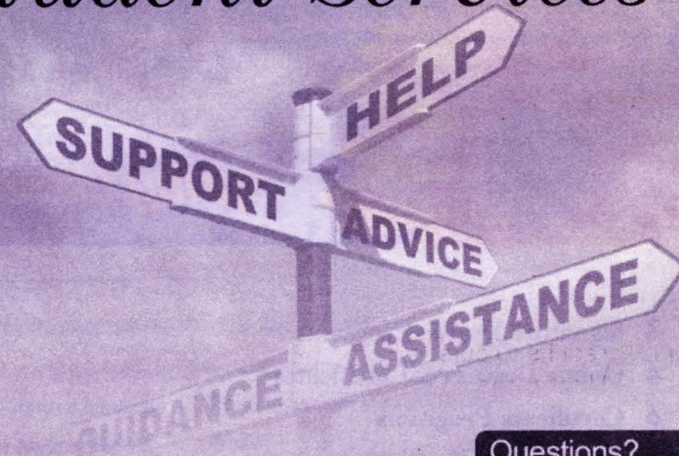
Ranked a Best Buy Online
Master's Degree by
GetEducated.com



"I had looked into a number of graduate programs, but UMass Lowell had the best selection of graduate-level IT courses and the tuition was more affordable. I started out taking a few of the courses like Digital Forensics and Cloud Computing, and found that what I learned was very practical. I was able to apply that knowledge right away in my job. After a couple of semesters, I decided to pursue my Master's Degree."

Mark Willard
M.S. in Information Technology, '14

Personalized Student Services



Questions?
Chat with an Advisor!
[Chat Now](#)

New! Live Chat Advising

Do you have a quick question but don't feel like picking up the phone? Visit <http://continuinged.uml.edu> to chat live with one of our advisors, available Monday through Friday during regular office hours.

Schedule an Advising Appointment

To schedule an appointment with an academic advisor, use our online self-service scheduling system found at: <http://continuinged.uml.edu/general/advising.cfm> or call 978-934-2474 and a student support specialist will make an appointment for you.

Earn Credit for Prior Learning

Please contact your Faculty Program Coordinator or schedule an appointment to discuss how you can complete your degree in a timely manner. Qualified degree candidates can earn credit for prior learning or certifications through University approved course equivalency procedures. For example, Bachelor degree students who complete all their credits at the University may apply for up to a maximum of 30 course equivalency credits.

EARN A BACHELOR'S DEGREE IN PSYCHOLOGY

entirely online...

OR AS A MIX OF ONLINE AND ON CAMPUS COURSES

UMass Lowell's Bachelor of Arts in Psychology can be completed on a part-time basis. Students in this program are instilled with a better understanding of human behavior — a valuable asset for careers in areas such as social work, education, management and marketing.

For additional information, visit

<http://continuinged.uml.edu/online/psychology/>



"My family and I came to the United States from Cambodia when I was still very young, and I am the first in my family to earn my bachelor's degree. Even though I live nearby, I earned my degree entirely online because it was so convenient, and I could work full time."

— Bunloeu Huot, Bachelor of Arts in Psychology, '15

Earn a Bachelor's Degree in English Online!

Interested in the fields of literary studies or creative and professional writing?



"I've been really impressed by the caliber of UMass Lowell's Online Bachelor's Degree in English. It's an innovative program, and that's the primary reason I chose UMass Lowell. When I was looking at online degrees in English, UMass Lowell's program had just launched, and I liked that it was new and inventive."

Charla McKenna
Online English Degree Student

The online Bachelor's Degree in English offers a flexible and vigorous curriculum grounded in British and American literary traditions, in the study of contemporary critical methods, and in the regular practice of research and writing.

New English courses available this Spring:

ENGL.3100-001 Writing Popular Fiction

ENGL.3820-061 Theatre History 1

See page 9 for a complete list of English courses this semester!

For further information, visit

<http://continuinged.uml.edu/degrees/english.cfm> or email englishstudies@uml.edu

Complete your Degree

On campus,
online,
or both!

Interested in completing your degree? Continuing Education academic counselors can meet with you to review your previously completed coursework and suggest a program of study that will allow you to maximize the number of credits you can transfer into the program. The degree programs below are part-time and are designed to allow degree completers the greatest flexibility towards achieving their goals.

Earn a Bachelor's Degree in...

BLENDED PROGRAM

Nursing: RN to BS Degree Completion

This mix of on campus, online and "blended" courses makes it more convenient than ever for licensed RN's to earn their Bachelor of Science Degree in Nursing part-time.

For details visit <http://continuinged.uml.edu/rntobs.cfm> or contact Stephanie Lane at 978-934-4776.

ONLINE

Information Technology

Earn your degree from a leader in Information Technology programs:

- B.S. in Information Technology
- B.S. in Information Technology: Business Minor Option

See http://continuinged.uml.edu/degrees/bs_informationtechnology.cfm for details.

ONLINE

Liberal Arts

Choose two of the following concentration areas:

- Psychology Concentration
- Art History Concentration
- Gender Studies Concentration
- Legal Studies Concentration
- History Concentration
- English Concentration
- Economics
- Political Science

Additional information on the Bachelor's Degree in Liberal Arts can also be found at <http://continuinged.uml.edu/degrees/bladegree.cfm>

ONLINE

Criminal Justice

Interested in a career in law enforcement, the courts system or corrections? UMass Lowell, a recognized leader in Criminal Justice Education is now offering its popular Bachelor's Degree in Criminal Justice entirely online!

For details, visit <http://continuinged.uml.edu/degrees/bscrimjustice.cfm>

ON CAMPUS

Mathematics

UMass Lowell's Department of Mathematical Sciences offers students a choice of either a Bachelor of Arts Degree or a Bachelor of Science Degree in Mathematics. The required Math courses are available during the evenings on campus, making it easier than ever for busy adults to pursue or complete their degree part-time. By combining the face-to-face math courses with required liberal arts courses which can be taken online, adult students will find it much more convenient to fit a Math degree into their busy schedules.

To see the array of Math degree options, visit <http://continuinged.uml.edu/degrees/>

PART TIME, ON CAMPUS

Engineering Technology

UMass Lowell offers Associate's and Bachelor's degrees in Mechanical Engineering Technology and Electronic Engineering Technology.

See <http://continuinged.uml.edu/engtech>

CORPORATE PARTNERSHIPS

Courses Can be Delivered Onsite at Companies

Testimonial from student at Analog Devices who takes courses on site at his company:

"Analog's partnership with UMass Lowell has been fantastic. It's been so convenient to take courses where I work. I'm going to graduate with my Bachelor's Degree in Electronic Engineering Technology in 2016. I can't say enough about the program. It's been a wonderful opportunity to earn my degree from UMass Lowell at Analog."

Tony Herrera,
Associate Equipment Engineer
Analog Devices, Inc.

PART-TIME UNDERGRADUATE DEGREE PROGRAMS

COLLEGE OF ENGINEERING

Associate's Degrees

Electronic Engineering Technology
Mechanical Engineering Technology

Bachelor's Degrees

Electronic Engineering Technology
Mechanical Engineering Technology

COLLEGE OF FINE ARTS, HUMANITIES & SOCIAL SCIENCES

Bachelor's Degrees

Criminal Justice
Criminal Justice: Paralegal Option
Liberal Arts
English
Psychology

COLLEGE OF SCIENCES

Associate's Degree

Information Technology

Bachelor's Degrees

Applied Mathematics
Information Technology
Information Technology:
Business Minor Option
Mathematics
Mathematics: Statistics
Concentration
Mathematics: Teacher
Concentration

MANNING SCHOOL OF BUSINESS

Associate's Degree

Management

Bachelor's Degree

Business Administration

SCHOOL OF HEALTH & ENVIRONMENT

RN to BS in Nursing Degree
Completion Option

ONLINE DEGREE PROGRAMS!



Earn your degree from a nationally-recognized leader in online education. At UMass Lowell, we are committed to providing high-quality, affordable online programs - all highly interactive and all backed by the academic integrity of a top-ranked research university.

Online Undergraduate Degree Programs

- Bachelor's Degree in Business Administration B.S.B.A. **NEW**
- Associate's Degree in Management, A.S.
- Bachelor's Degree in Criminal Justice, B.S. **NEW**
- Bachelor's Degree in English, B.A. **NEW**
- Bachelor's Degree in Information Technology, A.S. & B.S. *Business Minor Concentration Available*
- Bachelor of Liberal Arts Degree, B.L.A.
- Bachelor's Degree in Psychology, B.A.

Online Undergraduate Certificate Programs

- Certificate in Java Development **NEW**
- Certificate in Contemporary Communications
- Certificate in Data/Telecommunications
- Certificate in Graphic Design and Digital Imaging **NEW**
- Certificate in Information Technology
- Certificate in Multimedia Applications
- Certificate in Paralegal Studies
- Certificate in Security Management and Homeland Security
- Certificate in Linux/UNIX
- Certificate in Website Design and Development

Online Master's Degree Programs

- Master's Degree in Accounting (Online MSA) **NEW**
- Master's Degree in Finance **NEW**
- Master's Degree in Security Studies: Critical Infrastructure Protection Concentration **NEW!**
- Master's Degree in Security Studies: International Security Concentration **NEW!**
- Master's Degree in Security Studies: Industrial and Economic Security Concentration **NEW!**
- Master's Degree in Security Studies: Cyber Security Concentration, M.S. **NEW**
- Master's Degree in Security Studies: Homeland Defense Concentration, M.A. **NEW**
- Master's Degree in Criminal Justice, M.A.
- Master's Degree in Business Administration (Online MBA)
- Master's Degree in Educational Administration, M.Ed.
- Master's Degree in Information Technology, M.S. **NEW**
- Master's Degree in Reading and Language, M.Ed.
- Master's Degree in Curriculum & Instruction, M.Ed.
- Master's Degree in Curriculum & Instruction: Science Education Option, M.Ed.
- Master's Degree in Curriculum & Instruction: Autism Studies Option, M.Ed.

Online Education Specialist Degrees

- Curriculum & Instruction, Ed.S.
- Reading & Language, Ed.S*
- Administration, Planning & Policy, Ed.S*

Online Graduate Certificate Programs

- Certificate in Behavioral Intervention in Autism
- Certificate in Biomedical Engineering
- Certificate in Clinical Pathology
- Certificate in Domestic Violence Prevention
- Certificate in Foundations of Business
- Certificate in Forensic Criminology
- Certificate in Health Informatics **NEW**
- Certificate in Network Security **NEW**
- Certificate in New Venture Creation **NEW**
- Certificate in Plastics Engineering
- Certificate in Security Studies **NEW**
- Certificate in System Models and Management **NEW**
- Certificate in Victim Studies

Call (978) 934-2474 or visit <http://continuinged.uml.edu/online> to test drive an online course today!

Requirements and Registration Procedures for Online Courses

Online Education Course Registration Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. See the registration information on page 22 and the Non-Degree Registration Form at <http://continuinged.uml.edu/echosign>. The registration form also contains a user-friendly checklist to help you through the registration and course login process. Note: Please be sure to provide your email address when you register!

Blackboard Usernames and Passwords All online students must obtain their Blackboard online course usernames and passwords by visiting <http://continuinged.uml.edu/online> and clicking on the "Get your username & password here" link. Online course usernames and passwords become available two business days after registering for an online course. The "Get your username & password here" link is usually made available to students approximately three weeks prior to the start of the semester.

All Online Students are encouraged to review the Online Education website at <http://continuinged.uml.edu/online/courses/> to view course software and textbook requirements, course descriptions, chat hours and other course specific information. Online courses require weekly participation and assignments. Online students can expect to spend 6-10 hours per course each week engaged in course-related activities. A microphone and speaker, or a headset is recommended.

Technical Skills and Requirements To take an online course, you'll need access to either a PC w/Windows 7 or later or a Mac w/OS 10.7 or later, the latest version of Java, and a high speed Internet connection (DSL, Cable or FiOS). Visit <http://continuinged.uml.edu/online/techrequire.cfm> for additional information. Some online courses may require additional software. Please check the course details on our website for additional requirements. Students are responsible for learning to use course-related software before enrolling in an online course.

Test Drive and Tutorials All students new to Online Education should complete the free "Test Drive a Course" demo available at <http://continuinged.uml.edu/online/tutorial/testdrive.htm>. Tutorials are available on the Online Education Website at: <http://continuinged.uml.edu/online/tutorial>.

For the latest information regarding our online courses and programs, visit our website at <http://continuinged.uml.edu/online> or call (978) 934-2474.

Note: The University of Massachusetts System offers additional courses and programs online. Visit www.UMassOnline.net for more details.

Please note: There are no veteran or senior citizens waivers for online courses. Please refer to pages 22-23.

EARN YOUR MBA ONLINE!

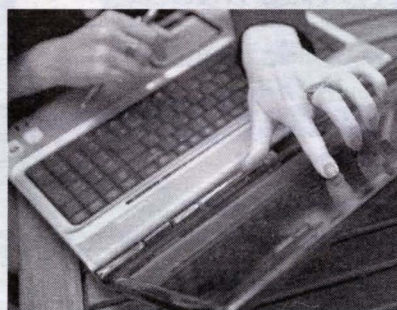
UMass Lowell's Manning School of Business is now offering their popular on campus MBA program online so that students both near and far can benefit from the program's commitment to excellence.

Master of Business Administration — Earn Your MBA Online, On Campus or Both!
<http://continuinged.uml.edu/online/mba/>

Concentrations in:

- Accounting
- Finance
- Information Technology
- Marketing
- International Business

Visit <http://continuinged.uml.edu/online/MBA/> for details.



Online Marketing Concentration for the MBA Program

Be part of this fast-paced profession and earn your degree with a focus on marketing!



Marketing is more important than ever. As the world gets flatter and the competitive landscape increases, marketing's job is to differentiate the company product, service or idea. Marketing professionals serve an essential function of any business or organization of getting the word out about a product or service. Any organization can benefit from positive marketing, including nonprofits, government agencies or entrepreneurs.

This Spring UMass Lowell will begin offering new courses as part of our Marketing Concentration for the MBA program. Courses include:

- Digital Marketing – **Offered Spring 2016!**
- Customer and Markets – **Offered Spring 2016!**
- New Product Development
- Market Research

Visit <http://continuinged.uml.edu/online/MBA/> for details.



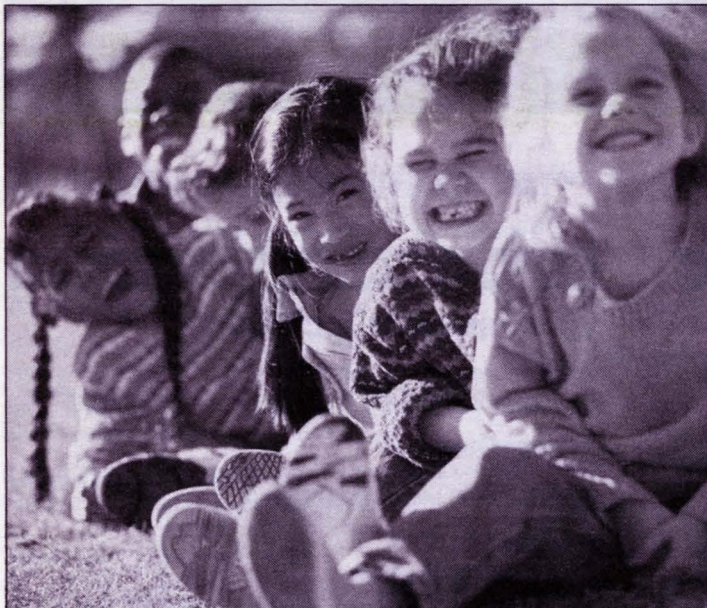
UMass Lowell's Manning School of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.



UMass Lowell's Online MBA has been ranked among the Best by US News & World Report, the Princeton Review and GetEducated.com

For more information, contact the MBA Office at the Manning School of Business, (978) 934-2848.

SIGNATURE PORTFOLIO OF ONLINE DEGREES & CERTIFICATES



ONLINE GRADUATE CERTIFICATE IN BEHAVIORAL INTERVENTION IN AUTISM

<http://continuinged.uml.edu/online/autism.cfm>

Early behavioral intervention is key in the successful treatment of autism. UMass Lowell's Department of Psychology offers an award-winning online Graduate Certificate Program in Behavioral Intervention in Autism. This six-course online graduate program is designed for those interested in becoming a Board Certified Behavior Analyst® (BCBA) through the Behavior Analysis Certification Board® (BACB) and will fulfill the Board's specific coursework requirements. Courses are taught by expert behavior analysts from around the country who work for some of the most respected centers for autism treatment and research.

Required Courses (6):

- PSYC.5610 Introduction to Behavioral Intervention in Autism - Available this Spring!
- PSYC.5620 Teaching and Positive Behavioral Support in Autism - Available this Spring!
- PSYC.5650 Measurement & Experimental Design in Behavioral Intervention - Available this Spring!
- PSYC.5660 Functional Analysis and Treatment of Challenging Behavior - Available this Spring!
- PSYC.5680 Behavioral Intervention Program Models in Autism - Available this Spring!
- PSYC.5720 Legal and Ethical Issues in Professional Practice - Available this Spring!

ATTENTION TEACHERS

See Our Ad Below for Info on the Master's Degree in Curriculum & Instruction: Autism Studies Program

ONLINE GRADUATE PROGRAMS FOR TEACHERS

10 Courses for your M.Ed. or Ed.S.

The following graduate degree programs are available:

Online Master's Degrees in Education

- Educational Administration, M.Ed.*
- Curriculum and Instruction, M.Ed.
- Curriculum and Instruction: Science Education, M.Ed.
- Curriculum and Instruction: Autism Studies, M.Ed.
- Reading and Language, M.Ed.*

Online Education Specialist Degrees - Ed.S.

For experienced educators who already have their master's degree and teacher licensure.

- Curriculum and Instruction, Ed.S.
 - Administration, Planning & Policy*
 - Reading and Language*
- * Programs marked with an asterisk are also available as licensure options for Massachusetts Teachers. Those licensure programs for MA teachers have some courses with on-campus components for in-state students.

NEW PROGRAM STARTING SUMMER 2016:

Ed.D. Leadership in Schooling — New program will be fully online with a required Summer 1 week residency.

For more details, visit <http://continuinged.uml.edu/education>

Affordable Tuition!

Only \$470 per credit;
\$1,410 for a
3-credit course!

"The content covered in Assessment of Reading and Language Disabilities really added to my confidence in sharing data about assessments during parent teacher conferences."

Lisa Morrison, Graduate
M.Ed. in Reading & Language

UMass Lowell's Graduate Education Program was recently ranked by US News & World Report as one of the Best Online Education programs!

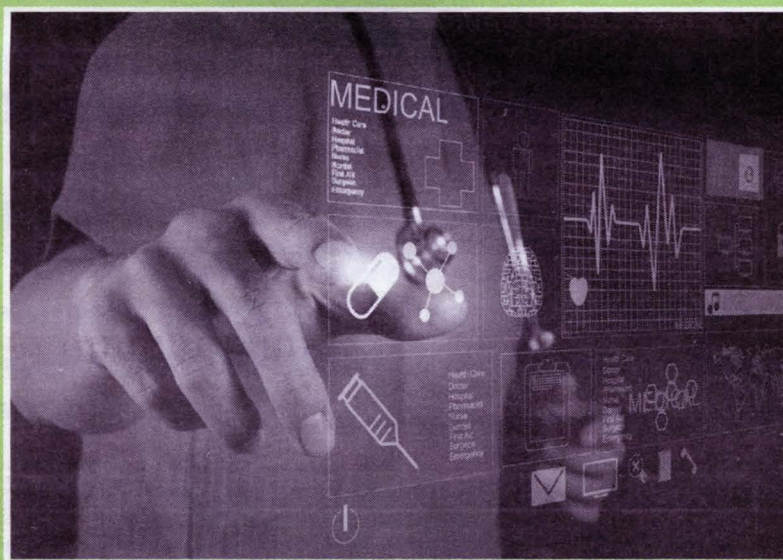


Call the Graduate School of Education for a FREE BROCHURE

Call 978-934-4600 or email edoffice@uml.edu



UMass Lowell's Graduate Health Informatics Certificate Program is Now Entirely Online!



A 4-course graduate certificate program for individuals with a background in health and healthcare who wish to apply current computer technology to the management of healthcare services in clinical, financial and record keeping areas.

Required Courses:

- PUBH.5310 Health Informatics - **Available Online this Spring!**
- PUBH.6070 Healthcare Information Systems - **Available Online this Spring!**

Elective Courses (choose 2):

- PUBH.6320 Health Information Systems Planning
- PUBH.6330 Healthcare Database Design - **Available Online this Spring NEW!**
- PUBH.6350 Healthcare Project Management - **Available Online this Spring**
- PUBH.6380 Strategic Planning in Healthcare and Healthcare Information Technology
- PUBH.6390 Electronic Health Records Systems - **Available Online this Spring NEW!**

Also Available Online this Spring:

- PUBH.5140 Healthcare Management - See page 16. **NEW!**

Earn Your Associate's Degree in Information Technology from a Top-Ranked IT Program

UMass Lowell's Associate's Degree in Information Technology is designed for those who are interested in pursuing a career in the high demand field of Information Technology. In addition to concentrated electives and general studies requirements, the IT Associate's degree program includes popular courses such as:

- Introduction to Information Systems
- Technical and Scientific Communication
- Programming (various languages)
- Graphics for Multimedia and the Web
- Desktop Video Production
- Website Development
- Web Database Development

Graduates of the A.S. in Information Technology can count all of their associate's degree courses towards UMass Lowell's B.S. in Information Technology once they're ready to take their education to the next level.

UMass Lowell's A.S. in Information Technology was recently ranked nationally as **#2 Best Online IT Associate's Degree** by **TheBestSchools.org**



For additional information on UMass Lowell's Online Associate's Degree in Information Technology, visit http://continuinged.uml.edu/degrees/as_informatiotechnology.cfm

Get one step closer to your degree, *faster than you ever imagined possible.*

➤ **Website Design & Development**

Available online

Use Towards a Degree in Information Technology!*

Website Design Track

Note: Students pursuing the Website Design Track should have basic familiarity with HTML. Those who do not have basic familiarity with HTML are encouraged to take INFO.291 Introduction to HTML as one of their electives prior to taking the required courses in this program.

Required Courses: (4)

INFO.2310 ✦ Graphics for Multimedia and the Web

GRFX.2120 Website Design

GRFX.3120 Advanced Website Design

INFO.2470 Web Authoring: Adobe® Flash®

Electives: (Choose 2):

GRFX.2030 Photographic Imaging

INFO.2300 ✦ Introduction to Multimedia

INFO.2380 Website Development: Dreamweaver

INFO.2480 ✦ Website Database Implementation

INFO.2500 ✦ E-Commerce on the Web

INFO.2910 ✦ Introduction to HTML

INFO.2920 ✦ Advanced DHTML

INFO.3020 ✦ JavaScript

INFO.3060 ✦ Introduction to XML

INFO.3460 ✦ Digital Media Delivery

Note: Other 90.xxx courses may be substituted as electives for the Website Development Track with prior approval from the certificate program coordinator.

Website Development Track

Required Courses: (4)

INFO.2910 ✦ Introduction to HTML

INFO.2380 Website Development: w/ Adobe® Dreamweaver®

INFO.2480 ✦ Website Database Implementation

INFO.3060 ✦ Introduction to XML

Electives: (Choose 2):

GRFX.2120 Website Design

GRFX.3120 Advanced Website Design

INFO.227 ✦ Developing Interactive Help Systems

INFO.2310 ✦ Graphics for Multimedia and the Web

INFO.2450 ✦ Website Server Administration

INFO.2460L ✦ Active Server Pages .NET

INFO.2470 Web Authoring: Adobe® Flash®

INFO.2500 ✦ E-Commerce on the Web

INFO.2920 ✦ Advanced DHTML

INFO.2970 Intro to Java Programming

INFO.3010 ✦ Java Programming

INFO.3020 ✦ JavaScript

INFO.3050 ✦ Survey of Perl/Python/PHP

INFO.3460 ✦ Digital Media Delivery

New Certificate Program!

Available online

*"The demand for Java skills is soaring...
Java is now the second most sought-after skill
in the IT recruitment market, according to
Computer Weekly's Survey of Appointment
and Trends."*

—Ross Bentley for ComputerWeekly.com

➤ **The Java Development Certificate Program**

The US Bureau of Labor Statistics, Occupational Outlook Handbook, 2010-2011 edition reports that the demand for Information Technology workers is expected to continue its growth trajectory through 2018. UMass Lowell's new Java Development Certificate Program is designed to provide IT professionals with a cluster of Java courses that will make them more competitive in today's marketplace.

Required Courses (4):

INFO.2970 Intro to Java Programming

INFO.3010 Java Programming

INFO.3030 Advanced Java Programming

INFO.3080 Agile Software Development

Electives - Choose 2:

INFO.2250 Survey of Programming Languages

INFO.2670 C Programming

INFO.3040 Introduction to Java Web Development

INFO.3050 Survey of Perl/Python/PHP

INFO.3070 Advanced Topics in Java and XML

All of the courses for this certificate can also be counted towards UMass Lowell's Bachelor's Degree in Information Technology. For more information, visit <http://continuinged.uml.edu/certificates/java.cfm>

INFORMATION TECHNOLOGY PROGRAMS

According to the U.S. Bureau of Labor Statistics...

*Demand for information
technology workers is
expected to continue
its growth trajectory
through 2018.*

Source: Occupational Outlook Handbook, 2010-11 Edition

**UMass Lowell has one of the largest Information
Technology Programs in New England!**

**PART-TIME GRADUATE PROGRAMS
FOR I.T. PROFESSIONALS**

- Master of Science Degree in Information Technology
- Online Certificate Program in Systems Models and Management
- The Online Graduate Certificate Program in Network Security

PART-TIME UNDERGRADUATE I.T. PROGRAMS

- A.S. in Information Technology - Online or On Campus
Ranked #2 Best Online IT Associate's Degree Nationally (see page 5)
- B.S. in Information Technology - Online or On Campus
- 2nd Bachelor's Degree in Information Technology
- B.S. in Information Technology: Business Minor -
Online or On Campus
**Ranked as a Best Buy in Online Bachelor's Degree Programs by
GetEducated.com**
- Undergraduate Certificates - Linux/UNIX, Website Design &
Development, Java Development, Information Technology,
Multimedia Applications

**EARN YOUR BACHELOR'S
DEGREE IN BUSINESS
ENTIRELY ONLINE!**



UMass Lowell's **Robert J. Manning School of Business' Bachelor of
Science Degree in Business Administration** is now available entirely
online through the Division of Online and Continuing Education.

**Spring 2016 Online Marketing Courses that can be counted
towards the Bachelor's Degree in Business include:**

MKTG.2010 Marketing Principles

MKTG.2100 Professional Communications - **NEW!**

MKTG.3130 Sales & Customer Relations - **NEW!**

MKTG.4020 Buyer Behavior - **NEW!**

MKTG.4070 Retailing

MKTG.4120 Global Marketing

**New Online Management Courses for the
BSBA Degree this Spring include:**

MGMT.4900 Strategic Management - **NEW!**

MGMT.4800 Current Topics in Management:

Business Process Management - **NEW!**

UMass Lowell's Robert J. Manning School of Business is fully accredited
by the Association to Advance Collegiate Schools of Business (AACSB)
International.

For additional information, visit: <http://continuinged.uml.edu/degrees/bsba.cfm>

CUSTOMIZED TRAINING

Designed to meet your company's business needs

* [HTTP://CONTINUINGED.UML.EDU/CORPORATE](http://continuinged.uml.edu/corporate)

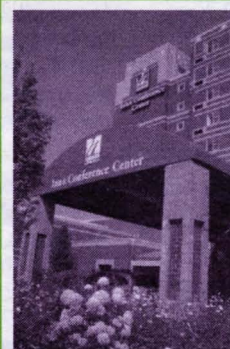
PLASTICS SEMINARS



INTERESTED IN PLASTICS TRAINING?

Attend our plastics seminars on campus — or on site at your company!

Visit our website at
<http://continuinged.uml.edu/plastics>



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Project Management Noncredit Certificate • Winter/Spring 2016

Seminars may be taken individually or applied towards the Project Management Certificate. For a Project Management Brochure or for additional information, call (978) 934-2473.

REQUIRED SEMINARS:

Project Management: Planning & Scheduling (offered twice)

Section 1 CRS #00.608-041
Four Evenings; Meets 6pm-9:30pm;
Tuesdays, Feb. 2, 9, 23, March 1 (skips 2/16)
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Section 2: CRS #00.608-042
Two Days; Meets 9am-4pm;
Thursday/Friday, Feb. 4, 5
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Project Management: Resources and Budgeting (offered twice)

Section 1 CRS #00.609-041
Two Days; Meets 9am-4pm;
Thursday/Friday, February 25, 26
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Section 2: CRS #00.609-042
Four Evenings; Meets 6pm-9:30pm;
Tuesdays, March 8, 15, 22, 29
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Risk Management (offered twice)

Section 1 CRS #00.614-041
Two Days; Meets 9am-4pm;
Thursday/Friday, March 31, April 1
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Section 2: CRS #00.614-042
Four Evenings; Meets 6pm-9:30pm;
Tuesdays, April 5, 12, 26,
May 3 (skips April 19)
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

ELECTIVES SEMINARS (CHOOSE 3):

Project Management Boot Camp

CRS #00.613-041
One Day; Meets 9am-4pm; Friday, January 29
Held on Lowell Campus; Tuition: \$495;
CEUs: .7; PDUs: 7

Agile & Scrum Training

CRS # 00.638-041
One Day; Meets 9am-4pm; Friday, February 12
Held on Lowell Campus; Tuition: \$525;
CEUs: .7; PDUs: 7

Leadership Skills

CRS # 00.616-041
One Day; Meets 9am-4pm; Friday, March 11
Held on Lowell Campus; Tuition: \$495;
CEUs: .7; PDUs: 7

Microsoft Project 2013

CRS #00.610-041
Two Days; Meets 9am-4pm; Thursday/
Friday, March 17, 18
Held on Lowell Campus; Tuition: \$875
CEUs: 1.4; PDUs: 14

Conflict Resolution for Project Managers

CRS #00.624-041
Two Evenings; Meets 6pm-9:30pm;
Mondays; May 2, 9
Held on Lowell Campus; Tuition: \$495
CEUs: .7; PDUs: 7

Procurement & Contract Management

CRS #00.625-041
Four Evenings; Meets 6pm-9:30pm;
Tuesdays, May 10, 17, 24, 31
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Communication & Team Management

CRS #00.626-041
Two Days; Meets 9am-4pm; Thursday/
Friday, April 7, 8
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

Negotiation Skills

CRS #00.618-041
Two Days; Meets 9am-4pm; Monday/
Tuesday, May 23, 24
Held on Lowell Campus; Tuition: \$825;
CEUs: 1.4; PDUs: 14

OPTIONAL SEMINAR

PMP Exam Preparation

CRS # 00.621-041
Two Days; Meets 9am-4pm;
Thursday/Friday, March 3, 4
Held on Lowell Campus; Tuition: \$825
CEUs: 1.4; PDUs: 14



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For additional information,
visit <http://continuinged.uml.edu/corporate/projectmanagementcertificate.cfm>

Project Management Noncredit Advanced Certificate Program

UMass Lowell's Advanced Project Management Certificate Program offers working professionals intensive training in advanced project management topics. This program emphasizes important and relevant information useful in today's fast-paced environment. Focused on critical topics in project management, the advanced certificate consists of five seminars and is appropriate for project managers who want to increase their knowledge and PMPs who need to maintain their credentials.

Spring 2016 Schedule Choose 4 of the following 5 seminars to complete the certificate:

Agile & Scrum Training

CRS #00.638-041
One Day; Meets 9am-4pm;
Friday, February 12
Held on Lowell Campus; Tuition: \$525
CEUs: .7; Contact Hours/PDUs: 7

Critical Thinking for Project Managers

CRS # 00.653-041
One Day; Meets 9am-4pm;
Friday, April 29
Held on Lowell Campus; Tuition: \$525
CEUs: .7; Contact Hours/PDUs: 7

Total Project Control Team Case Study

Prerequisite: Planning & Scheduling;
Resources & Budgeting
CRS # 00.654-041
One Day; Meets 9am-4pm; Friday, May 20
Held on Lowell Campus; Tuition: \$525
CEUs: .7; Contact Hours/PDUs: 7

Stakeholder Management

CRS # 00.651-041
One Day; Meets 9am-4pm; Friday, April 15
Held on Lowell Campus; Tuition: \$525
CEUs: .7; Contact Hours/PDUs: 7

Project Management in the Public Sector

CRS # 00.652-041
Two Days; Meets 9am-4pm;
Monday/Tuesday, June 27, 28
Held on Lowell Campus; Tuition: \$850
CEUs: 1.4; Contact Hours/PDUs: 14

To register, call (978) 934-2405

PROJECT MANAGEMENT OPEN HOUSE

Wednesday, January 13, 2016, 6-7pm

At UML's Inn and Conference Center
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Please join us for a Free Information Session to learn about UMass Lowell's noncredit Certificate in Project Management & the new Advanced Project Management Certificate. Don't miss this opportunity to learn more about the latest tools and business trends that many successful companies are implementing today.

Meet the instructors and some former students and network with other project management professionals.

Sign up today at
<http://continuinged.uml.edu/projmgmt>
Call 978-934-2473 for more details.

UNDERGRADUATE CREDIT COURSES

ISIS Class Course No. No.	Title	Days Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
General Education (for students entering before fall 2015) and Core Curriculum (for students entering in 2015) can be found at the following website: http://www.uml.edu/Academics/undergraduate-programs/Gened/default.aspx					
ACCOUNTING					
8157 ACCT.2010-001	Accounting/Financial	Mon 6:30-9:20 pm	3		S. DeSimone
8159 ACCT.2010-061	Accounting/Financial	>Online Course	3		C. Carter
8162 ACCT.2010-062	Accounting/Financial	>Online Course	3		J. Lin
8165 ACCT.2020-001	Accounting/Managerial	Tues 6:30-9:20 pm	3	P: ACCT.2010	J. Archambault
8168 ACCT.2020-031	Accounting/Managerial	>Online Course	3	P: ACCT.2010	J. Lessard
ACCT.2030-061 NEW!	Financial/Managerial Accounting	>Online Course	3		C. Rohland
8174 ACCT.3020-001	Intermediate Accounting II	Tues 6:30-9:20 pm	3	P: ACCT.3010	S. Suh
8176 ACCT.3030-031	Accounting Information Systems	>Online Course	3	P: ACCT.3020	S. Strickland
8178 ACCT.3210-061	Cost Accounting	>Online Course	3	P: ACCT.3010	H. Sharma
8180 ACCT.4010-031	Advanced Financial Accounting	>Online Course	3	P: ACCT.3020	J. Lin
8181 ACCT.4310-001	Federal Income Taxes	Tues 6:30-9:20 pm	3	P: ACCT.2020	C. Carney
8182 ACCT.4310-031	Federal Income Taxes	>Online Course	3	P: ACCT.2020	J. Casello Bouges
ART/COMPUTER GRAPHICS					
8578 GRFX.2000-061	Introduction to Graphic Design	>Online Course	3	P: Basic computer proficiency; requires Adobe InDesign, Photoshop & Illustrator CC*	P. Orfao
8580 GRFX.2020-061	Fundamentals of Typography	>Online Course	3	P: Basic computer proficiency; requires Adobe® Illustrator® & Photoshop® CC*	C. Meeks
8581 GRFX.2030-061	Photographic Imaging	>Online Course	3	P: Basic computer proficiency; requires Adobe Photoshop CC*	E. Carlson
8582 GRFX.2040-061	Computer Graphics and Illustration	>Online Course	3	P: Basic Computer proficiency; requires Adobe Illustrator CC*	C. Meeks
8583 GRFX.2110-061	Desktop Publishing: Print Production	>Online Course	3	P: GRFX.2000 or ARTS.2910 or ARTS.2100; GRFX.2020 as prereq or coreq or instructor permission; requires Adobe InDesign® Photoshop & Illustrator CC* plus access to a scanner	R. Gardner-Milan
8584 GRFX.2120-061	Website Design	>Online Course	3	P: HTML and Photoshop familiarity required; requires Dreamweaver® and Photoshop CC*	C. Perry
8585 GRFX.3000-061	Advanced Graphic Design	>Online Course	3	P: GRFX.2000 and GRFX.2020 or instructor permission; req. Adobe	P. Orfao
8586 GRFX.3120-061	Advanced Website Design	>Online Course	3	P: GRFX.2120 or ARTS.3790 or ARTS.3200;	C. Perry
8592 GRFX.3150-061	Design for Advertising	>Online Course	3	P: GRFX.2000 and GRFX2020, familiarity With Adobe Photoshop and InDesign recommended Requires Dreamweaver and Photoshop CC*	R. Gardner-Milan
*Access to Adobe's Creative Cloud Software requires a \$19.99 monthly subscription (student rate). For details, please visit www.adobe.com					
Note: While the above courses will not transfer directly into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval.					
ART HISTORY					
8208 ARHI.1010-061	Art Appreciation	>Online Course	3		J. Sawyer
8218 ARHI.1050-031	Comparative Arts	>Online Course	3		J. Sawyer
8214 ARHI.2040-031	History of Art II: Renaissance to Modern Art	>Online Course	3		T. Bizzarro
8219 ARHI.3130-061	American Art	>Online Course	3	P: ARHI.1010 and/or ARHI.2110 or permission of instructor	M. Frank
BIOLOGICAL SCIENCES					
8259 LIFE.1000-031	Introduction to Biology	>Online Course	3	Not for Biology majors	E. Vorotnikova
8260 LIFE.1000-032	Introduction to Biology	>Online Course	3	Not for Biology majors	D. Eberiel
8262 LIFE.1010-001	Life Science I	Wed 7:00-9:50 pm	3		M. Fannon
8263 LIFE.1050L-031	Introduction to Biology Lab	>Online Course	1(3)	P: or C: LIFE.1000; not for Biology majors	P. Mattson
8265 LIFE.1100-031	Microbes and Society: Good, Bad and Ugly	>Online Course	3		E. Vorotnikova
8267 LIFE.1250-031	Plants and Human Society	>Online Course	3	Requires MS Word	G. Skinner-Brassard
8268 LIFE.1270-031	Plants and Human Society Lab	>Online Course	1(3)	P: or C: LIFE.1250; requires MS Word	G. Skinner-Brassard
8269 LIFE.2140-031	Human Ecology	>Online Course	3		P. Mattson
CHEMISTRY					
8158 CHEM.1010-001	Applied Chemistry for Non-Scientists	Wed 7:00-9:50 pm	3	Not for Science & Math majors	J. Sarabia
8160 CHEM.1010-031	Applied Chemistry for Non-Scientists	>Online Course	3	Not for Science & Math majors	P. Lamprey
8161 CHEM.1010-032	Applied Chemistry for Non-Scientists	>Online Course	3	Not for Science & Math majors	P. Lamprey
8163 CHEM.1020-031	Forensic Science for the Non-Scientist	>Online Course	3		S. Sawan
8164 CHEM.1020-032	Forensic Science for the Non-Scientist	>Online Course	3		S. Sawan
8166 CHEM.1210-001	Chemistry I	Tues 6:30-10:20 pm	3(4)	C: CHEM.1230	G. Davis
8167 CHEM.1220-001	Chemistry II	Mon 6:30-10:20 pm	3(4)	P: CHEM.1210 or C: CHEM.1240L	M. Vela
8169 CHEM.1230L-001	Chemistry I Laboratory	Wed 7:00-9:50 pm	1(3)	C: CHEM.1210	D. Pyburn
8171 CHEM.1230L-002	Chemistry I Laboratory	Thurs 7:00-9:50 pm	1(3)	C: CHEM.1210	G. Gajnos
8172 CHEM.1240L-001	Chemistry II Laboratory	Wed 7:00-9:50 pm	1(3)	C: CHEM.1220	G. Gajnos
8173 CHEM.2210-001	Organic Chemistry IA	T/Th 6:30-8:30 pm	3(4)	P: CHEM.1220 and CHEM.1240; C: CHEM.2270 or CHEM.2290	S. Lewis
8175 CHEM.2220-001	Organic Chemistry IIA	M/W 6:30-8:30 pm	3(4)	P: CHEM.2210; C: CHEM.2280 or CHEM.2300	K. Reddie
8177 CHEM.2290L-001	Organic Chemistry IA Laboratory	Wed 6:00-9:50 pm	1(3)	C: CHEM.2210	H. Fu
8179 CHEM.2300L-001	Organic Chemistry IIA Laboratory	Tues 6:00-9:50 pm	1(3)	C: CHEM.2220 or CHEM.2230	J. Garcia
COMPUTER SCIENCE					
8575 COMP.1130-061	Exploring the Internet	>Online Course	3	Non-CS Majors only; requires access to a microphone	T. Watterson
Please note courses with a COMP.- prefix can be used as Information Technology electives in the Undergraduate BS Information Technology degree program.					
CRIMINAL JUSTICE					
10163 CRIM.1010-031	The Criminal Justice System	>Online Course	3		L. Boyd
10164 CRIM.1150-031 NEW!	Introduction to Homeland Security	>Online Course	3		R. Sojka
10167 CRIM.1410-031 NEW!	Introduction to Policing	>Online Course	3		M. Morabito
10172 CRIM.1510-031	Introduction to Corrections	>Online Course	3		C. Levey
10174 CRIM.2030-031	Technology and the Criminal Justice System	>Online Course	3		K. Clarke
10175 CRIM.2210-031	Criminology	>Online Course	3		L. Boyd
10176 CRIM.2340-031	Criminal Law	>Online Course	3		S. Zane
10178 CRIM.2480-031	Terrorism (International and Domestic)	>Online Course	3		R. Wesley
10181 CRIM.3260-061	Hate Crimes	>Online Course	3		K. Jordan
10184 CRIM.3270-031	Violence in America	>Online Course	3		F. Spina
10194 CRIM.3480-031 NEW!	Advanced Seminar in Terrorism & Weapons of Mass Destruction	>Online Course	3		B. Betty
10199 CRIM.3600-061	Gender, Race, and Crime	>Online Course	3		G. Beaudoin

UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
10202	CRIM.3870-061	Criminal Mind and Behavior	>Online Course		3	P: CRIM.101 or CRIM.221	E. Fersch
10207	CRIM.3900-031	Criminal Justice Research Methods	>Online Course		3	Criminal Justice Junior/Senior standing only	K. Socia
10229	CRIM.3950-031	Statistics in Criminal Justice	>Online Course		3	Criminal Justice Junior/Senior standing only	P. McCormack
10232	CRIM.3980-031	Criminal Justice Data Analysis	>Online Course		3	P: CRIM.390 or PSYC.269; Criminal Justice Junior/Senior standing only	A. Callahan
10233	CRIM.4010-031	Substance Abuse and Crime	>Online Course		3	P: CRIM.390 or PSYC.269; Criminal Justice Junior/Senior standing only	S. Walfield
10235	CRIM.4770-001	Intimate Partner Violence		Wed 6:30-9:20 pm	3		A. Traficante
10236	CRIM.4780-031	Child Maltreatment	>Online Course		3	Junior or Senior standing only	E. Weeks
ECONOMICS							
8195	ECON.2010-001	Economics I (Microeconomics)	Mon	6:30-9:20 pm	3		H. Khosla
8196	ECON.2010-061	Economics I (Microeconomics)	>Online Course		3		T. Tempesti
8199	ECON.2010-062	Economics I (Microeconomics)	>Online Course		3		D. Kingsley
8201	ECON.2010-063	Economics I (Microeconomics)	>Online Course		3		N. Aman
8202	ECON.2010-064	Economics I (Microeconomics)	>Online Course		3		M. Carter
8204	ECON.2020-001	Economics II (Macroeconomics)	Tues	6:30-9:20 pm	3		P. Machado
8206	ECON.2020-061	Economics II (Macroeconomics)	>Online Course		3		M. Carter
8207	ECON.2020-062	Economics II (Macroeconomics)	>Online Course		3		G. Lyn
8210	ECON.2020-063	Economics II (Macroeconomics)	>Online Course		3		N. Aman
8211	ECON.2110-001	Statistics for Business and Economics I	Tues	6:30-9:20 pm	3	P: MATH.1210 or MATH.1280H. Khosla	
8212	ECON.2110-061	Statistics for Business and Economics I	>Online Course		3	P: MATH.1210 or MATH.1280	M. Quayes
8213	ECON.3040-061	Macroeconomic Theory	>Online Course		3	P: ECON.2020	S. Smirnov
8216	ECON.3120-061	Managerial Economics	>Online Course		3	P: ECON.2010	M. Carter
8217	ECON.3160-061	Investments: Instruments and Strategies	>Online Course		3	P: ECON.2010	D. Ornstil
8220	ECON.3250-031	United States Economic History	>Online Course		3	P: ECON.2010 or ECON.2020	C. McDonough
ELECTRONIC ENGINEERING TECHNOLOGY							
8229	ETEC.1310-001	Electronic Basics and Laboratory	Mon	6:30-9:20 pm	2(3)	P: ETEC.1300	A. Rux
8231	ETEC.2140-001	Circuits II and Laboratory	Wed	6:30-9:20 pm	2(3)	P: ETEC.2130	D. Clark
8233	ETEC.2160-001	Circuits IV	Wed	6:30-9:20 pm	3	P: ETEC.2150	J. Drew
8235	ETEC.2720-031	Introduction to Alternative Energy	>Online Course		3		D. Bowden
8236	ETEC.3220-001	Signals and Systems I	Thurs	6:30-9:20 pm	3	P: MATH.2340 and permission of instructor	A. Paradis
8251	ETEC.3540-001	PSPICE® Simulation	Thurs	7:00-9:50 pm	3	P: ETEC.3550	J. Drew
8240	ETEC.3560-001	Electronics II and Laboratory	Mon	6:30-9:20 pm	2(3)	P: ETEC.2150, ETEC.3550, ENGL.2260, and MATH.1260	D. Clark
8241	ETEC.3580-001	Electronics IV and Laboratory	Wed	6:30-9:20 pm	2(3)	P: ETEC.3570	G. Howe
8242	ETEC.3600-001	Mathematics and Statistics/E.E.T.	Wed	6:30-9:20 pm	3	P: ETEC.3530, ETEC.3580, ETEC.3650	A. Paradis
8243	ETEC.3610-001	Project Laboratory A	TBA	TBA	2(3)	P: ETEC.3530, ETEC.3580, ETEC.3650	A. Rux
8252	ETEC.3760-001	Electromagnetic Theory	Mon	6:30-9:20 pm	3	P: ETEC.2130, ETEC.2140 and MATH.2360	B. Dean
8238	ETEC.3840-031	Microprocessors B	>Online Course		2(3)	P: ETEC.3830	D. Bowden
8247	ETEC.3910-001	Project Laboratory B	TBA	TBA	2(3)	P: ETEC.3610 or ETEC.3530, and ETEC.3580 and ETEC.3650	A. Rux
8248	ETEC.3920-001	Project Laboratory C	TBA	TBA	2(3)	P: ETEC.3610, or ETEC.3530 and ETEC.3580 and ETEC.3650 at least one ETEC.4xxx E.E.T. elective	A. Rux
ENGLISH							
8190	ENGL.1010-031	College Writing I	>Online Course		3	Requires MS Word	C. Archer
8194	ENGL.1010-032	College Writing I	>Online Course		3	Requires MS Word	R. Keating
8198	ENGL.1010-033	College Writing I	>Online Course		3	Requires MS Word	R. Keating
8205	ENGL.1010-034	College Writing I	>Online Course		3	Requires MS Word	C. Archer
8215	ENGL.1020-001	College Writing II	Mon	7:00-9:50 pm	3	P: ENGL.1010	M. Miller
8221	ENGL.1020-031	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	E. Bingman
8222	ENGL.1020-032	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	E. Bingman
8224	ENGL.1020-033	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	M. Salamone
8225	ENGL.1020-034	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	J. Martin
8227	ENGL.1020-035	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	J. Martin
8228	ENGL.1020-036	College Writing II	>Online Course		3	P: ENGL.1010; requires MS Word	M. Salamone
8456	ENGL.2120-031	The Short Story	>Online Course		3	P: ENGL.1010, ENGL.1020	J. VanderVeen
8457	ENGL.2120-032	The Short Story	>Online Course		3	P: ENGL.1010, ENGL.1020	T. Michaels
8458	ENGL.2160-061	Monsters, Apes, and Nightmares	>Online Course		3	P: ENGL.1010, ENGL.1020	T. Avery
8459	ENGL.2170-031	The Horror Story	>Online Course		3	P: ENGL.1010, ENGL.1020; requires MS Word	L. Mahoney
8567	ENGL.2180-031	Comedy	>Online Course		3	P: ENGL.1010, ENGL.1020	J. Pruet
8460	ENGL.2240-061*	Business Writing	>Online Course		3	P: ENGL.1010, ENGL.1020; requires MS Word	C. Perreault
8461	ENGL.2260-061	Technical and Scientific Communication	>Online Course		3	P: ENGL.1010, ENGL.1020	K. McIsaac
8463	ENGL.2360-031	Science Fiction and Fantasy	>Online Course		3	P: ENGL.1010, ENGL.1020	K. Shrieves
8470	ENGL.2380-031	Introduction to Creative Writing	>Online Course		3	P: ENGL.1010, ENGL.1020	M. Thibodeau
8571	ENGL.2460-031	Gay and Lesbian Literature	>Online Course		3	P: ENGL.1010, ENGL.1020	J. Pruet
8499	ENGL.2810-031	British Literary Traditions	>Online Course		3	P: ENGL.1010, ENGL.1020, or English Majors	M. Hurwitz
8508	ENGL.2820-031	American Traditions	>Online Course		3	P: ENGL.1010, ENGL.1020, or English Majors	K. Mitchell
8500	ENGL.3020-031	Creative Writing: Fiction	>Online Course		3	P: ENGL.1010, ENGL.1020	A. Johnson
8511	ENGL.3070-031	History of English Language	>Online Course		3	P: ENGL.1010, ENGL.1020	K. Shrieves
8579	ENGL.3100-001	Writing Popular Fiction	Thurs	6:30-9:20 pm	3	P: ENGL.1010, ENGL.1020	D. Daniel
8501	ENGL.3170-031	British Literature of the 20th Century	>Online Course		3	P: ENGL.1010, ENGL.1020	A. Sponenberg
8514	ENGL.3240-061	Writing About Place	>Online Course		3	P: ENGL.1010, ENGL.1020	M. Miller
8502	ENGL.3350-031	American Women Novelists	>Online Course		3	P: ENGL.1010, ENGL.1020	J. Pruet
8503	ENGL.3490-031	Arthurian Literature	>Online Course		3	P: ENGL.1010, ENGL.1020	K. Shrieves
8517	ENGL.3820-061	NEW! Theater History 1	>Online Course		3	P: ENGL.1010, ENGL.1020	S. Barish
* Students will not receive credit for both ENGL.2240 and ENGL.2260							
FINANCE							
8462	FINA.3010-001	Financial Management	Thurs	6:30-9:20 pm	3	P: ECON.2010, ACCT.2010; BU Minor COM Filter courses; BSBA or Business Minor students	X. Yuan
8481	FINA.3010-061	Financial Management	>Online Course		3	P: ACCT.2020, ECON.2010, ECON.2020, COM Filter courses; BSBA or Business Minor students; requires logarithm calculator	S. Freund
8484	FINA.3110-031	Introduction to Financial Statement Analysis	>Online Course		3	P: FINA.3010	R. Jain
8485	FINA.3210-031	Investments and Portfolio Analysis	>Online Course		3	P: COM Filter courses; BSBA or Business Minor students permission	F. Andrews
8488	FINA.4910-031	International Finance	>Online Course		3	P: FINA.3010	D. Prasad
GENDER STUDIES							
8502	ENGL.3350-031	American Women Novelist	>Online Course		3	P: ENGL.1010, ENGL.1020	J. Pruet
8283	LGST.3810-031	Women and the Law	>Online Course		3	Requires MS Word	D. Banfield
8333	PSYC.3350-061	Psychology and Women	>Online Course		3	P: PSYC.1010	M. Drake
8448	WLSP.3300-061	Spanish and Latin American Women Writers	>Online Course		3	P: WLSP.2120 or WLSP.2040	M. Matz

UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
GRAPHIC DESIGN AND DIGITAL IMAGING			(See courses listed under Art/Computer Graphics and Information Technology.)				
HEALTH							
10503	HSCI.1020-001	Human Anatomy and Physiology II	Tues	6:30-9:20 pm	3	P: HSCI.1010, HSCI.1030; C: HSCI.1040	P. Fierimonte
10634	HSCI.1021-061	Introduction to Public Health	>Online Course		3		N. Champagne
10506	HSCI.1040-001	Human Anatomy and Physiology Laboratory II	Thurs	6:30-9:20 pm	1(3)	C: HSCI.1020	J. Daza-Saya
10637	HSCI.1021-062	Introduction to Public Health	>Online Course		3		N. Champagne
10190	HSCI.3060-031	Introduction to Gerontology	>Online Course		3		R. Gautam
10204	HSCI.3200-031	Legal Issues in Nursing	>Online Course		3		P. Ladebauche
HISTORY							
10655	HIST.1050-031	Western Civilization I	Online Course		3		A. Drenas
10676	HIST.1080-031	World Civilization II	>Online Course		3		D. Kalivas
10684	HIST.1120-001	United States History since 1877	Tues	6:30-9:20 pm	3		S. Russell
10693	HIST.1120-031	United States History since 1877	>Online Course		3		M. Pratschke
10694	HIST.2420-031	World War II	>Online Course		3		D. Mattheisen
10698	HIST.2750-031	African American History	>Online Course		3		L. Vox
10701	HIST.3040-031	European Economic and Social History	>Online Course		3		M. Pratschke
10704	HIST.3210-031	The Holocaust	>Online Course		3		W. Hoerle
10709	HIST.3500-001	Colonial America: History and Culture	Thurs	6:30-9:20 pm	3		R. Lemire
10713	HIST.3560-031	Civil War and Reconstruction	>Online Course		3		D. Driscoll
10716	HIST.3730-031	Nazi Germany	>Online Course		3		W. Hoerle
INFORMATION TECHNOLOGY			(Including Multimedia And Computer Graphics)				
8496	INFO.1600-061	Introduction to Information Systems	>Online Course		3		L. Panagopoulos
8497	INFO.1600-062	Introduction to Information Systems	>Online Course		3		A. Garside
8498	INFO.1710-031	Applications Software: Microsoft® Access®	>Online Course		3	Requires MS Access 2010; Windows based;	H. Shanzer
8504	INFO.1800-061	Applications Software: Microsoft® Excel®	>Online Course		3	P: INFO.202 or equivalent; requires MS Excel 2010; Windows based	R. Desmond
8505	INFO.2020-001	Microsoft® Office	Mon	6:30-9:20 pm	3	Requires MS Office 2013; Windows based	T. Bass
8506	INFO.2020-061	Microsoft® Office	>Online Course		3	Requires MS Office 2013; Windows based	R. Desmond
8507	INFO.2020-062	Microsoft® Office	>Online Course		3	Requires MS Office 2013; Windows based	T. Bass
8509	INFO.2110-001*	Introduction to Programming with C-Part I	Tues	7:00-9:50 pm	3	No previous programming experience required	N. Kiernan-Bell
8510	INFO.2110-062*	Introduction to Programming with C-Part I	>Online Course		3	No previous programming experience required; requires ANSI C/C++ standard compiler	J. Sears
8512	INFO.2110-061*	Introduction to Programming with C-Part I	>Online Course		3	No previous programming experience required; requires ANSI C/C++ standard compiler	B. Moscon
8513	INFO.2120-001*	Introduction to Programming with C-Part II	Thurs	7:00-9:50 pm	3	P: INFO.2110	N. Kiernan-Bell
8515	INFO.2120-061*	Introduction to Programming with C-Part II	>Online Course		3	P: INFO.2110; requires ANSI C/ C++ standard compiler	J. Sears
8516	INFO.2120-062*	Introduction to Programming with C-Part II	>Online Course		3	P: INFO.2110; requires ANSI C/ C++ standard compiler	B. Moscon
8518	INFO.2200L-061	Visual Basic	>Online Course		3		A. Garside
8519	INFO.2250-031	Survey of Programming Languages	>Online Course		3	Working knowledge of at least one higher Level programming language; requires ANSI C/ C++ standard compiler	T. Niesen
8520	INFO.2300-061	Introduction to Multimedia	>Online Course		3		F. Lucas
8524	INFO.2310-061	Graphics for Multimedia and the World Wide Web	>Online Course		3	P: INFO.2300	R. Howe
8525	INFO.2320L-061	Desktop Video Production	>Online Course		3	P: INFO.2300	F. Lucas
8526	INFO.2480-061	Website Database Implementation	>Online Course		3		D. Card
8527	INFO.2500-061	E-Commerce on the Web	>Online Course		3		A. Banafa
8528	INFO.2670-061*	C Programming	>Online Course		3	P: Previous programming experience;	T. Niesen
8529	INFO.2680-061	C++ Programming	>Online Course		3	P: INFO.2670 or INFO.2120; requires C++ compiler software	L. Smith
8530	INFO.2710-061	C# Programming	>Online Course		3		T. Kostizak
8531	INFO.2910-061	Introduction to DHTML	>Online Course		3		W. Dubie
8532	INFO.2910-062	Introduction to DHTML	>Online Course		3		K. Wedge
8533	INFO.2970-061	Introduction to Java Programming	>Online Course		3	P: Previous programming experience required; J2SE Development Kit (LDK) 6.0 required	L. Smith
8534	INFO.3010-061	Java™ Programming/Windows	>Online Course		3	P: INFO.2970 or INFO.2680, req. Sun Java Dev. Kit	E. Kramer
8535	INFO.3020-061	JavaScript	>Online Course		3	P: INFO.2910 or knowledge of HTML	D. Sciuto
8536	INFO.3030-061	Advanced Java Programming	>Online Course		3		S. Marks
12891	INFO.3040-031	NEW! Introduction to Java Web Development	>Online Course		3	P: INFO.2970 Intro to Java Programming	L. Xia
9778	INFO.3050-061	Survey of Perl/Python/PHP	>Online Course		3		S. Marks
8538	INFO.3060-031	Introduction to XML	>Online Course		3	P: INFO.2910	D. Sciuto
8540	INFO.3110-031	Introduction to the Linux/ UNIX® Operating System	>Online Course		3		F. Vegliante
8541	INFO.3110-061	Introduction to the Linux/ UNIX® Operating System	>Online Course		3		F. Vegliante
8542	INFO.3120-061	Shell Scripting	>Online Course		3	P: INFO.3110, and INFO.2670 or INFO.2120	M. Richards
8543	INFO.3210-061	Linux/ UNIX® System Administration	>Online Course		3	P: Shell Scripting experience; required software included with text	M. Richards
8544	INFO.3600-031	NEW! Introduction to Data Structures with C	>Online Course		3	P: INFO.2670 or INFO.2120 and INFO.3640	T. Kostizak
8545	INFO.3640-031	Problem Solving with C	>Online Course		3		S. McGowan
8546	INFO.3850-061	Introduction to Information Security	>Online Course		3	P: INFO.1600 and INFO.2020, or equivalent	W. Vales
11093	INFO.4550-001	Database Administration III: Oracle IIg Projects	TBA		3	P: INFO.4500, INFO.4530, or instructor permission	T. Cummings
8547	INFO.4570-031	Network Security	>Online Course		3	P: INFO.4620 and INFO.3190 or INFO.3110 or related experience	W. Vales
8548	INFO.4600-061	Computer Ethics	>Online Course		3		S. McGowan
8549	INFO.4610-061	LAN/WAN Technologies	>Online Course		3	P: INFO.2670 or previous programming experience	E. Barnes
8550	INFO.4610-062	LAN/WAN Technologies	>Online Course		3	P: INFO.2670 or previous programming experience	D. Root
8551	INFO.4620-061	TCP/IP and Network Architecture	>Online Course		3	P: INFO.4610	E. Barnes
8552	INFO.4640-061	Network Management	>Online Course		3	P: INFO.4610	D. Root
8553	INFO.4740-031	Relational Database Concepts	>Online Course		3	P: INFO.2670	R. Demers
13309	INFO.4780-001	Information Systems II	Wed	7:00-9:50 pm	3		W. Chicoine
8555	INFO.4800-031	Project-Based Information Systems	>Online Course		6	P: Junior status; can be used to replace the sequence of INFO.4770 and INFO.4780	J. Forsyth
8556	INFO.4800-032	Project-Based Information Systems	>Online Course		6	P: Junior status; can be used to replace the sequence of INFO.4770 and INFO.4780	J. Forsyth
8575	COMP.1130-061	Exploring the Internet	>Online Course		3	Non-CS Majors only; requires access to a microphone	T. Watterson

Please note courses with a COMP- prefix can be used as Information Technology electives in the undergraduate BS Information Technology degree program.

*Students will not receive credit for both INFO.2670 and the INFO.2110/INFO.2120 sequence.

UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
INTERCOLLEGIATE ARTS AND SCIENCES							
8412	FAHS.3630-031	Introduction to Disability Studies	>Online Course		3	P: PSYC.1010	L. Vorderer
LANGUAGES							
8413	WLFR.1010-031	French 1 and Culture	>Online Course		3	Microphone or headset recommended	D. Boutwell
8414	WLFR.1020-031	French 2 and Culture	>Online Course		3	P: WLFR.1010 or equivalent; microphone or headset recommended	T. Bentaous
8415	WLFR.2110-031	French 3 and Culture	>Online Course		3	P: WLFR.1020 or equivalent; microphone or Headset recommended	D. Boutwell
8422	WLFR.2120-061	French 4 and Culture	>Online Course		3	P: WLFR.2110 or equivalent; microphone or headset recommended	C. Salmon
8426	WLSP.1010-061	Spanish 1 and Culture	>Online Course		3	Microphone or headset recommended	K. Vitchkoski
8428	WLSP.1010-062	Spanish 1 and Culture	>Online Course		3	Microphone or headset recommended	B. Alvarado
8433	WLSP.1020-061	Spanish 2 and Culture	>Online Course		3	P: WLSP.1010 or equivalent; microphone or headset recommended	K. Vitchkoski
8437	WLSP.1020-062	Spanish 2 and Culture	>Online Course		3	P: WLSP.1010 or equivalent; microphone or headset recommended	E. Legere
8440	WLSP.2110-061	Spanish 3 and Culture	>Online Course		3	P: WLSP.1020 or WLSP.1040; microphone or headset recommended	F. Gonzalez-Arias
8442	WLSP.2110-062	Spanish 3 and Culture	>Online Course		3	P: WLSP.1020 or WLSP.1040; microphone or Headset recommended	E. Legere
8445	WLSP.2120-061	Spanish 4 and Culture	>Online Course		3	P: WLSP.2110 or equivalent; microphone or headset recommended	B. Alvarado
8447	WLSP.2120-062	Spanish 4 and Culture	>Online Course		3	P: WLSP.2110 or equivalent; microphone or headset recommended	F. Gonzalez-Arias
8448	WLSP.3300-061	Spanish and Latin American Women Writers	>Online Course		3	P: WLSP.2120 or WLSP.2040	M. Matz
LEGAL STUDIES							
8234	LGST.1030-031	Introduction to Paralegal Studies*	>Online Course		3	Requires MS Word and law library access	D. Zils Banfield
8239	LGST.2610-031	Introduction to Legal Concepts	>Online Course		3		M. Bazin
8249	LGST.2620-061	Introduction to Business Law *	>Online Course		3	Collateral CJ, required for Legal Studies,	W. Toomey
8257	LGST.3630-001	Corporate and Property Law*	Tues	6:30-9:20 pm	3	Requires MS Word	P. King
8271	LGST.3630-031	Corporate and Property Law*	>Online Course		3	Requires MS Word	E. Curran
8272	LGST.3700-061	Real Estate Law*	>Online Course		3	Requires MS Word	P. Sullivan Talty
8276	LGST.3720-031	Sports, Entertainment and Art Law	>Online Course		3		M. Jones
8280	LGST.3760-061	Family Law*	>Online Course		3	Microphone or headset required	R. Karl
8283	LGST.3810-031	Women and the Law	>Online Course		3	Requires MS Word	D. Zils Banfield
8560	LGST.3830-031	Alternative Dispute Resolution	>Online Course		3	Requires MS Word	E. Banks Crouch
8287	LGST.3860-031	Intellectual Property*	>Online Course		3		M. Aiken
8290	LGST.3870-031	Legal Research Methods*	>Online Course		3	Requires MS Word and law library access	M. Bazin
8294	LGST.3900-031	Litigation	>Online Course		3		E. Curran
8298	LGST.3920-061	Wills, Trusts and Estates	>Online Course		3		W. Toomey
8300	LGST.4970-001	The Paralegal Practicum*	TBA	TBA	3	P: Minimum of 3 paralegal courses and permission of Legal Studies Department; call 978-934-2822 or email at michelle_bazin@uml.edu	M. Bazin
*Also part of the Paralegal Program							
MANAGEMENT							
12561	BUSI.1500-061	Business 101	>Online Course		3		D. Finch
12562	MGMT.3010-001	Organizational Behavior	Wed	6:30-9:20 pm	3	P: COM filter courses; BSBA or Business minor/BSIT/ASIT students with 54+ credits	O. Tines
12563	MGMT.3010-061	Organizational Behavior	>Online Course		3	P: COM filter courses; BSBA or Business minor/BSIT/ASIT students with 54+ credits	S. Freedman
12565	MGMT.3100-061	Human Resources Management	>Online Course		3	P: MGMT.3010	B. Hargreaves-Heald
13232	BUSI.3800-061	NEW! Business Ethics	>Online Course		3		E. Magnant
12633	MGMT.4200-001	Leadership Processes	Thurs	6:30-9:20 pm	3	P: MGMT.3010	R. Jordan
12634	MGMT.4350-001	International Management	Wed	6:30-9:20 pm	3	P: MGMT.3010	D. Lewis
12632	MGMT.4800-062	NEW! Current Topics in Management: Business Process Management	>Online Course		3	P: MGMT.3010	M. Salach
12637	MGMT.4900-001	Strategic Management	Tues	6:30-9:20 pm	3	P: 96 credits and FINA.3010, MKTG.2010, POMS.3010, MGMT.3010, BSBA students	P. Jermain
12639	MGMT.4900-061	Strategic Management	>Online Course		3	P: 96 credits and FINA.3010, MKTG.2010, POMS.3010, MGMT.3010, BSBA students	M. Salach
12641	MGMT.4900-062	Strategic Management	>Online Course		3	P: 96 credits and FINA.3010, MKTG.2010, POMS.3010, MGMT.3010, BSBA students	P. Jermain
MARKETING							
8375	MKTG.2010-001	Marketing Principles	Tues	6:30-9:20 pm	3	P: ECON.2010	S. Wong
8378	MKTG.2010-061	Marketing Principles	>Online Course		3	P: ECON.2010	J. Crooker
8381	MKTG.2100-001	Professional Communications	Wed	6:30-9:20 pm	3		K. Lazer
8386	MKTG.2100-002	Professional Communications	Tues	6:30-9:20 pm	3		D. Barrett
10874	MKTG.2100-061	NEW! Professional Communications	>Online Course		3		D. Casey
8395	MKTG.3130-061	NEW! Sales and Customer Relations	>Online Course		3	P: MKTG.2010; COM Filter	S. Powell
8396	MKTG.4020-061	NEW! Buyer Behavior	>Online Course		3	P: MKTG.2010	D. Casey
8398	MKTG.4070-061	Retailing	>Online Course		3	P: MKTG.2010	Y. Huang
8399	MKTG.4120-061	Global Marketing	>Online Course		3		Y. Huang
MATHEMATICS							
12895	MATH.1110-031	Quantitive Reasoning	>Online Course		3		Z. Farmanesh-Karimy
12642	MATH.1115-001*	Fundamentals of Algebra	Thurs	6:30-9:20 pm	3		T. Watterson
12545	MATH.1200-001**	Precalculus Mathematics I	Thurs	6:30-9:20 pm	3	P: MATH.1115 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class	E. Yankowskas
12558	MATH.1200-031**	Precalculus Mathematics I	>Online Course		3	P: MATH.1115 or equivalent; MA; designed for students who can work independently in math	A. Doerr
12560	MATH.1200-032**	Precalculus Mathematics I	>Online Course		3	P: MATH.1115 or equivalent; MA; designed for students who can work independently in math	E. Yankowskas
12580	MATH.1220-001	Management Calculus	Mon	7:00-9:50 pm	3	P: MATH.1200 or MATH.1210 or equivalent; MA not for science or engineering majors	A. Olsen
12583	MATH.1220-002	Management Calculus	Tues	6:30-9:20 pm	3	P: MATH.1200 or MATH.1210 or equivalent; not for science or engineering majors	C. Weston
12584	MATH.1220-031	Management Calculus	>Online Course		3	P: MATH.1200 or MATH.1210 or equivalent; not for science or engineering majors	M. Stick
12566	MATH.1230-001	Precalculus Mathematics II	Wed	6:30-9:20 pm	3	P: MATH.1200 or equivalent	M. Jamil
12569	MATH.1250-001	Calculus A	Mon	6:30-9:20 pm	3	P: MATH.1230	S. Yeh
12572	MATH.1260-001	Calculus B	Mon	6:30-9:20 pm	3	P: MATH.1250	T. Schille
12595	MATH.2220-001	Linear Algebra II	Wed	6:30-9:20 pm	3	P: MATH.2210	R. Brent

UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
12600	MATH.2250-001	Calculus C	Wed	6:30-9:20 pm	3	P: MATH.1260	V. Prasad
13563	MATH.2260-001	Calculus D	Wed	6:30-9:20 pm	3	P: MATH.2250 or MATH.1320	R. Mirie
12612	MATH.2340-001	Differential Equations	Wed	6:30-9:20 pm	3	P: MATH.2250 or MATH.1320	R. Mirie
12615	MATH.2830-001	Introduction to Statistics	Wed	7:00-9:50 pm	3	P: MATH.1115 or equivalent	A. Olsen
12517	MATH.2830-031	Introduction to Statistics	>Online Course		3	P: MATH.1115 or equivalent	Department Faculty
12520	MATH.2830-032	Introduction to Statistics	>Online Course		3	P: MATH.1115 or equivalent	H. Troughton
12523	MATH.2830-033	Introduction to Statistics	>Online Course		3	P: MATH.1115 or equivalent	H. Troughton
13009	MATH.2830-034	Introduction to Statistics	>Online Course		3	P: MATH.1115 or equivalent	C. Fournier
12525	MATH.3210-031	Discrete Structures I	>Online Course		3	P: MATH.1200 or MATH.1210; designed for students who can work independently in math	A. Doerr
12527	MATH.3210-032	Discrete Structures I	>Online Course		3	P: MATH.1200 or MATH.1210; designed for students who can work independently in math	R. Montenegro
12529	MATH.3210-033	Discrete Structures I	>Online Course		3	P: MATH.1200 or MATH.1210; designed for students who can work independently in math	R. Montenegro
12532	MATH.3750-001	Senior Seminar I	TBA	TBA	1		R. Montenegro
12536	MATH.3860-001	Probability and Statistics I	Tues	6:30-9:20 pm	3	P: MATH.2250 or MATH.1320	C. Venkatesh
12539	MATH.4110-001	Complex Variables I	Tues	6:30-9:20 pm	3	P: MATH.2260 or MATH.2310	A. Kheifets
12546	MATH.4450-001	Partial Differential Equations	Tues	6:30-9:20 pm	3	P: MATH.2340 or MATH.2360	V. Shubov
12549	MATH.4660-001	Statistical Program Using SAS	Tues	6:30-9:20 pm	3	P: MATH.3850 or MATH.3860	L. Lidsky
12552	MATH.4750-001	Senior Seminar II	TBA	TBA	3	P: Permission of Coordinator	R. Montenegro

*Fundamentals of Algebra (MATH.1115) is a preparatory course and cannot be credited toward any degree program at the University of Massachusetts Lowell.

**Credit is given for only one of the two following courses: MATH.120 or MATH.121 University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a INFO prefix. Many 5000-level courses are well within the grasp of upper level undergraduates and may be used as elective See graduate mathematics course listings on the registrar's web page.

MECHANICAL ENGINEERING TECHNOLOGY

8275	MTEC.2000-031	Computer Aided Drafting (CADr)	>Online Course		3	P: MTEC.1010	N. Truscott
8277	MTEC.2020-001	Thermo/Fluids Laboratory	Wed	6:30-9:20 pm	2(3)	P: MTEC.2410, MTEC.2420, MTEC.2260	J. McSweeney Jr.
8449	MTEC.2220-001	Dynamics	Wed	7:00-9:50 pm	3	P: MATH.1250, MATH.1260, MTEC.2210	G. Stewart
8561	MTEC.2260-001	Technical Communications for Engineering Technology	Mon	6:30-9:20 pm	3	P: ENGL.1020	J. Moran
8281	MTEC.2430-001	Elements of Thermodynamics II	Tues	7:00-9:50 pm	3	P: MTEC.2410	J. Colluccini
8282	MTEC.2620-031	Engineering Data Analysis	>Online Course		3	P: MATH.1260	B. Mingels
8295	MTEC.3010-001	Manufacturing Technology Laboratory	Tues	6:30-9:20 pm	3	P: MTEC.1020	G. Sundberg
8284	MTEC.3020-001	Mechanics/Materials Laboratory	Thurs	6:00-9:20 pm	2(3)	P: MTEC.2220, MTEC.2230, MTEC.2260	G. Bousquet
8521	MTEC.3530-001	Forensic Engineering	Mon	6:30-9:20 pm	3		W. Wang
8286	MTEC.3540-001	Problems in Mechanical Engineering Technology	Tues	6:30-9:20 pm	3	P: MATH.2250, MTEC.3200, MTEC.2210, MTEC.2220, MTEC.2230	G. Stewart
8293	MTEC.4320-001	Capstone Design	Mon	6:30-9:20 pm	3	P: MATH.2250, MTEC.2420, MTEC.2620, MTEC.3200, MTEC.4140, MTEC.3540, MTEC.4750	B. Mingels
8288	MTEC.4840-031	Introduction to Pro/ENGINEER	>Online Course		3	P: MTEC.2000	P. Rich
8289	MTEC.4850-031	Introduction to SolidWorks®	>Online Course		3	P: MTEC.2000, MTEC.4840, or equivalent experience	N. Truscott

OPERATIONS AND INFORMATION SYSTEMS

8328	MIST.2010-001	Business Information Systems	Thurs	6:30-9:20 pm	3	P: COM Filter courses; Business minor and ACCT.2010	M. Bhindarwala
8590	MIST.2010-061	NEW! Business Information Systems	>Online Course		3	P: COM Filter courses; Business minor and ACCT.2010	J. Zhang
8591	MIST.3040-001	Data Comm and Networks	Tues	6:30-9:20 pm	3	P: POMS.3010	M. Bhindarwala
8337	POMS.2010-001	Managerial Decision Making	Thurs	6:30-9:20 pm	3	P: ECON.2110 or MATH.1830 or MATH.2830	E. Early
8340	POMS.2010-031	Managerial Decision Making	>Online Course		3	P: ECON.2110 or MATH.1830 or MATH.2830	T. Sloan
8344	POMS.3010-001	Operations Management	Tues	6:30-9:20 pm	3	P: POMS.2010; COM Filter courses	M. Awan
8350	POMS.3010-061	Operations Management	>Online Course		3	P: POMS.2010; COM Filter courses	M. Khan

PARALEGAL PROGRAM

(See courses listed under Legal Studies.)

PHILOSOPHY

8303	PHIL.2010-001	Introduction to Philosophy	Tues	6:30-9:20 pm	3		D. Luddy
13013	PHIL.2010-031	Introduction to Philosophy	>Online Course		3		D. Leblanc
8304	PHIL.2020-031	Introduction to Logic and Critical Reasoning	>Online Course		3		C. Hodapp
8313	PHIL.2030-031	Introduction to Ethics	>Online Course		3		C. Phillips
8314	PHIL.2030-032	Introduction to Ethics	>Online Course		3		D. White
8315	PHIL.2030-033	Introduction to Ethics	>Online Course		3		D. White
8318	PHIL.2960-031	Introduction to World Religions	>Online Course		3		W. Kaufman
12992	PHIL.2240-031	Engineering and Ethics	>Online Course		3		H. Furey
8319	PHIL.3750-031	Philosophy of Sex and Love	>Online Course		3		C. Hay

PHYSICS

8438	RADI.1010-031	Radiation and Life	>Online Course		3		T. Regan
9707	PHYS.1310-001*	Technical Physics I	Thurs	7:00-9:50 pm	3(3.5)		N. Sullivan
9695	PHYS.1320-001*	Technical Physics II	Thurs	7:00-9:50 pm	3(3.5)	P: RADI.1310	C. Narayan

*Two Friday night classes required.

PLASTICS

10241	PTEC.4400-001	Commercial Development of Plastics	Mon	6:30-9:20 pm	3		Stephen Driscoll
10250	PTEC.4520-001	Selected Topics II	Mon	6:30-9:20 pm	3		Department Faculty
10254	PTEC.4540-001	Selected Topics IV	Tues	6:30-9:20 pm	3		Department Faculty
10257	PTEC.4560-001	Selected Topics VI	Wed	6:30-9:20 pm	3		Department Faculty
10261	PTEC.4580-001	Selected Topics VIII	Thurs	6:30-9:20 pm	3		Department Faculty

POLITICAL SCIENCE

8562	POLI.1010-001	Introduction to American Politics	Tues	7:00-9:50 pm	3		B. Williams
8564	POLI.1010-031	Introduction to American Politics	>Online Course		3		J. Carter
8565	POLI.1210.031	Introduction to International Relations	>Online Course		3		J. Carter
8566	POLI.2180-061	Introduction to Politics and Sports	>Online Course		3		J. Gerson/R. Borges
8568	POLI.2220-061	Politics of the Internet	>Online Course		3		C. Wilkinson
8569	POLI.2300-061	Law and the Legal System	>Online Course		3		P. Sullivan Talty
8570	POLI.3160-061	Politics and Film	>Online Course		3		J. Gerson
8572	POLI.3230-061	Politics and Baseball	>Online Course		3		W. Nowlin

UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
8573	POLI.3320-061	The Politics of Food		>Online Course	3		C. Wilkinson
8574	POLI.3430-061	Congress		>Online Course	3		M. Walsh
8576	POLI.3440-001	American Presidency	Wed	6:30-9:20 pm	3		D. Deeb
8577	POLI.3530-061	Public Policy and Administration		>Online Course	3		F. Talty

PSYCHOLOGY

8273	PSYC.1010-001	General Psychology	Tues	6:30-9:20 pm	3		D. Cruz
8278	PSYC.1010-061	General Psychology		>Online Course	3		J. Kendrick
8279	PSYC.1010-062	General Psychology		>Online Course	3		S. Cappello
8291	PSYC.2090-001	Social Psychology	Wed	6:30-9:20 pm	3	P: or C: PSYC.10100	C. Virga
8292	PSYC.2090-061	Social Psychology		>Online Course	3	P: or C: PSYC.1010	J. Lawrence
8296	PSYC.2320-061	Psychology of Personality		>Online Course	3	P: or C: PSYC.1010	J. Kendrick
8302	PSYC.2550-061	Community Psychology		>Online Course	3	P: or C: PSYC.1010	E. Sanborne
8297	PSYC.2600-001	Child and Adolescent Development	Thurs	6:30-9:20 pm	3	P: or C: PSYC.1010	C. Davy
8299	PSYC.2600-061	Child and Adolescent Development		>Online Course	3	P: or C: PSYC.1010	P. Trela
8301	PSYC.2600-062	Child and Adolescent Development		>Online Course	3	P: or C: PSYC.1010	P. Trela
8306	PSYC.2690-001	Research I: Methods	Wed	6:30-9:20 pm	3	P: PSYC.1010	J. Worthley
8305	PSYC.2690-031	Research I: Methods		>Online Course	3	P: PSYC.1010	D. Arcus
8307	PSYC.2720-001	Abnormal Psychology	Mon	6:30-9:20 pm	3	P: PSYC.1010	P. Hantzis
8308	PSYC.2720-061	Abnormal Psychology		>Online Course	3	P: PSYC.1010	J. Theriault
8309	PSYC.2730-061	Brain, Mind, and Behavior		>Online Course	3	P: PSYC.1010	M. Duell
8310	PSYC.2780-001	Cognitive Psychology	Tues	6:30-9:20 pm	3	P: PSYC.1010	D. Kinney
8311	PSYC.3050-061	Psychology and Law		>Online Course	3	P: PSYC.1010	S. Block
8558	PSYC.3080-031	Industrial/Organizational Psychology		>Online Course	3	P: PSYC.1010	M. Haynes-Baratz
8329	PSYC.3120-031	Learning and Behavior		>Online Course	3	P: PSYC.1010	H. Lobo
8333	PSYC.3350-061	Psychology and Women		>Online Course	3	P: PSYC.1010	M. Drake
8338	PSYC.3510-061	Human Sexuality		>Online Course	3	P: PSYC.1010	M. Duell
8339	PSYC.3550-001	Sport and Exercise Psychology	Tues	6:30-9:20 pm	3	P: PSYC.1010	J. Graves
8341	PSYC.3600-061	Adult Development and Aging		>Online Course	3	P: PSYC.1010, and PSYC.2600 or comparable knowledge	M. Stanford-Pollock
8342	PSYC.3610-031	Developmental Psychopathology		>Online Course	3	P: PSYC.1010, PSYC.2600	K. Leonard
8559	PSYC.3630-031	Introduction to Disability Studies		>Online Course	3	P: PSYC.1010	L.Vorderer
8345	PSYC.3690-031	Research II: Statistics		>Online Course	3	P: PSYC.1010, grade of C or better in PSYC.2690	A. Frye
8347	PSYC.3750-031	Research III: Laboratory		>Online Course	3	P: PSYC.3690; grade of C or better in PSYC.2690	M. Duell
8348	PSYC.4730-061	Seminar: Social Psychology- Social (In)Justice		>Online Course	3	P: PSYC.1010, PSYC.2690	J. Sladkova
8349	PSYC.4750-061	Seminar: Clinical Psychology- Autism		>Online Course	3	P: PSYC.1010, PSYC.2690	K. Maguire
8352	PSYC.4770-061	Seminar: Contemporary Trends- Addictions		>Online Course	3	P: PSYC.1010, PSYC.2690	R. Siegel
8353	PSYC.4780-061	Seminar in Cognitive Psychology: Applications to Education		>Online Course	3	P: PSYC.1010, PSYC.2690	Y. Weinstein

SOCIOLOGY

8320	SOCI.1010-061	Introduction to Sociology		>Online Course	3		M. Slone
8321	SOCI.1010-062	Introduction to Sociology		>Online Course	3		L. Chorbajian
8322	SOCI.1120-001	Sociology Goes to the Movies	Mon	7:00-9:50 pm	3		W. Lekas
8323	SOCI.2120-061	Cultures of the World		>Online Course	3		D. Lamar
8324	SOCI.2200-061	Self-Assessment and Career Development		>Online Course	3		M. Drake
12725	SOCI.2340-001	Race and Ethnicity	Mon	6:30-9:20 pm	3		J. Ellis
8325	SOCI.3450-061	Urban Sociology		>Online Course	3	P: SOCI.1010	D. Lamar
8326	SOCI.3510-031	The Sociology of Health and Healthcare		>Online Course	3	P: SOCI.1010	J. Ost
8327	SOCI.3710-061	Sociology of Work		>Online Course	3	P: SOCI.1010	M. Slone

WEBSITE DESIGN AND DEVELOPMENT

(See courses listed under Information Technology.)



Pursue a UMass Lowell Degree at NECC in Haverhill this Spring

You can earn your Bachelor's Degree in Psychology, Criminal Justice, or Business Administration in Haverhill, Massachusetts.*

UMass Lowell will offer the following courses at Northern Essex Community College in Haverhill, MA this Spring:

Criminal Justice							
13368	CRIM.3800-HA1	Special Topics in Criminal Justice Sex Offenses and Offenders	Mon 3:00-6:00 pm	3	P: CRIM.2210; CJ majors only		J. Theriault
8183	CRIM.3980-HA1	Criminal Justice Data Analysis	Mon 6:30-9:20 pm	3	P: CRIM.3900 OR PSYC.2690; CJ (BS) Junior/Senior standing only		P. McCormack
8187	CRIM.4220-HA1	Victimology	Tues 6:30-9:20 pm	3	Junior/Senior standing only		K. Clarke
8185	CRIM.4770-HA1	Intimate Partner Violence	Thurs 6:30-9:20 pm	3	P: CRIM.1010 or CRIM.2210; Junior/Senior standing only		D. Carkin
History							
8453	HIST.3340-HA1	French Revolution and Napoleon	Thurs 3:00-6:00 pm	3			S. Russell
Management							
8588	FINA.4110-HA1	Financial Institutions and Markets	Thurs 6:30-9:20 pm	3	P: FINA.3010		C. Kim
12571	MGMT.3100-HA1	Human Resources Management	Wed 6:30-9:30 pm	3	P: MGMT.3010		M. Rutherford
12644	MGMT.4900-HA1	Strategic Management	Thurs 3:00-6:00 pm	3	P: FINA.3010, MKTG.2010, POMS.3710, MGMT.3010		C. Yun
8390	MKTG.3130-HA1	Sales and Customer Relations	Wed 3:00-6:00 pm	3	P: MKTG.2010; COM filter		P. Keyser
Operations Information Systems							
8364	POMS.3010-HA1	Operations Management	Tues 6:30-9:20 pm		P: POMS.2100; COM filter		M. Vaid
Psychology							
8331	PSYC.3350-HA1	Psychology and Women	Mon 6:30-9:20 pm	3	P: PSYC.1010		K. Butland
8336	PSYC.3450-HA1	Health Psychology	Wed 3:00-6:00 pm	3	P: PSYC.1010		S. Underwood
8346	PSYC.3690-HA1	Research II: Statistics	Wed 6:30-9:20 pm	3	P: PSYC.2690 with C or better		M. Ryder
8351	PSYC.4750-HA1	Seminar: Clinical Psychology- Sexual Offenders	Mon 3:00-6:00 pm	3	P: PSYC.1010; PSYC.2690		J. Theriault

*Students may have the option to complete some required courses online.

GRADUATE CREDIT COURSES

ISIS
Class Course
No. No.

Title

Days Time

Cr P: Prerequisite
(Con) Corequisite/Other

Instructor

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions Office at 800-656-GRAD or www.uml.edu/grad. In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

BIOLOGICAL SCIENCES

13195 BIOL.5170-001 Vertebrate Animals in Biological Research Wed 6:30-9:30pm 3 A. Dewilde

BIOMEDICAL ENGINEERING

11448 BMBT.5130-031 Biomedical Imaging Informatics >Online Course 3 M. O'Connor
13579 BMBT.5160-031 Basic Principles of Nuclear Magnetic Resonance Imaging >Online Course 3 D. Bennett

BUSINESS ADMINISTRATION

For a complete listing of all Spring 2016 ON-CAMPUS M.B.A. courses, please go to: www.uml.edu/grad and click on "Course Schedules."

8184	ACCT.5010-081	Financial Accounting (8 weeks: 1/19-3/12)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	S. Chunias
8186	ACCT.5010-082	Financial Accounting (8 weeks: 3/21-5/7)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	S. Chunias
8189	ACCT.6010-061 NEW!	Accounting Information for Management Decisions	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	L. Andrusaitis
8192	ACCT.6010-062	Accounting Information for Management Decisions	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	Y. Li
11458	ACCT.6010-063	Accounting Information for Management Decisions	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	S. Suh
8193	ACCT.6050-031	Government and Not for Profit Accounting	>Online Course	3		E. Carter
8197	ACCT.6220-031	Globalization and Accounting	>Online Course	3	P: MSA students; MBA students who have completed ACCT.6010	G. Joseph
8200	ACCT.6230-031	Contemporary Accounting Issues	>Online Course	3	P: MSA students	K. Karim
8203	ACCT.6550-031	Advanced Auditing	>Online Course	3	P: MSA students; MBA students who have completed ACCT.6010	S. Tate
8368	ENTR.5650-061 NEW!	Technological Entrepreneurship	>Online Course	3	P: Open to Science, Engineering, and Business Masters and Doctoral students	J. Wilson
10868	ENTR.6500-062	Innovation and Emerging Technology	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	J. O'Donnell
8371	ENTR.6500-061	Innovation and Emerging Technology	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	J. O'Donnell
8489	FINA.5010-081	Business Financial Analysis (8 weeks: 1/19-3/12)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students; requires logarithm calculator	Y. Puri
8490	FINA.5010-082	Business Financial Analysis (8 weeks: 3/21-5/7)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students; requires logarithm calculator	Y. Puri
8491	FINA.6010-061	Corporate Finance	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	R. Jain
8492	FINA.6010-062	Corporate Finance	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	S. Latif
8493	FINA.6240-061	Fixed Income Securities	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	S. Latif
8494	FINA.6750-061	Financial Derivatives	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	S. Freund
8495	FINA.6910-061	International Financial Management	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	D. Prasad
12646	MGMT.5010-081	Organizational Behavior (8 weeks: 1/19-3/12)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	D. Breyer
12647	MGMT.5010-082	Organizational Behavior (8 weeks: 3/21-5/7)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	D. Breyer
12648	MGMT.5110-081	Global Enterprise and Competition (8 weeks: 1/20-3/14)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	A. Mehta
12649	MGMT.5110-082	Global Enterprise and Competition (8 weeks: 3/23-5/15)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students completion of MBA Foundation courses	A. Mehta
12651	MGMT.6010-061	Managing Organizational Change	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	D. Vacarra
12652	MGMT.6520-061	Human Resources Management	>Online Course	3	P: MBA, MSITE, MBA Foundation courses	B. Hargreaves-Heald
12654	MGMT.6880-061	Current Topics in Management: Leadership Processes	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	D. Breyer
12656	MGMT.6910-061	Strategy Formation and Implementation	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses; requires access to a microphone	A. Mehta
8330	MIST.6010-061	Management Information Systems	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	E. Chen
8332	MIST.6010-062	Management Information Systems	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	S. Irish
8334	MIST.6080-061	Enterprise System Management	>Online Course	3	P: 63.601 or permission of instructor	L. Motiwalla
8335	MIST.6450-061	Information Technology Project Management	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	E. Chen
8401	MKTG.5010-081	Marketing Fundamentals (8 weeks: 1/19-3/12)	>Online Course	2	P: Open to MBA Certificate or Doctor of Engineering students	J. Crooker
8404	MKTG.5010-082	Marketing Fundamentals (8 weeks: 3/21-5/7)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	J. Crooker
8406	MKTG.6010-061	Customers and Markets	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses; mandatory chats	E. Yoon
10884	MKTG.6010-062	Customers and Markets	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses; mandatory chats	E. Yoon
8408	MKTG.6250-061 NEW!	Digital Marketing	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	T. Gao
13258	MKTG.6700-061	International Marketing	>Online Course	3	P: MBA Matriculated students, MBA Foundation core, MSITE program, or PSM sub-plan, or permission of Grad Program Coordinator	M. Talay
8393	POMS.5010-081	Operations Fundamentals (8 weeks: 1/19-3/12)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students; requires completion of MBA Foundation courses	M. Khan
8397	POMS.5010-082	Operations Fundamentals (8 weeks: 3/21-5/7)	>Online Course	2	P: Open to MBA, Business Certificate or Doctor of Engineering students	R. Drew
11295	POMS.6010-061	Operations Management	>Online Course	3	P: MBA matriculated students and completion of MBA Foundation courses	A. Oztekin

NOTE: The above MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Staff at MBA@uml.edu or call 978-934-2848 for permission to take courses.

GRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
CIVIL AND ENVIRONMENTAL ENGINEERING							
8191	CIVE.5750-001	Groundwater Modeling	Wed	6:30-9:20 pm	3		S. Smith
8454	ENVE.5010-001	Wetlands Ecology	Mon	6:30-9:20 pm	3		I. Hegemann-Clark/A. Fiorillo
8455	ENVE.5810-001	Understanding the Massachusetts Contingency Plan	Thurs	6:30-9:20 pm	3		J. Fitzgerald
COMPUTER SCIENCE							
12585	MSIT.5170-031	Operating Systems Foundations	>Online Course		3		W. Moloney
12596	MSIT.5180-031	Large Scale Application Deployment	>Online Course		3		J. Gimourginas
12599	MSIT.5360-031	Data Mining	>Online Course		3		C. Chen/T. Ge
12603	MSIT.5410-031	Information Security, Privacy and Regulatory Compliance	>Online Course		3		T. Cummings
12977	MSIT.5430-031	Intrusion Detection Systems	>Online Course		3		H. Lambright
12586	MSIT.5600-031	Network Infrastructures	>Online Course		3		B. Liu
12588	MSIT.5610-031	Computer Network Security	>Online Course		3		J. Wang
12591	MSIT.5630-031	Secure Mobile Networks	>Online Course		3		G. Chen
12687	MSIT.5650-031	Cloud Computing	>Online Course		3		R. Bell
CRIMINAL JUSTICE							
10247	CRIM.5010-031	Criminological Theory: Foundations	>Online Course		3		L. Siegel
10238	CRIM.5030-031	Administration of Criminal Justice	>Online Course		3		L. Siegel
13101	CRIM.5210-031	Managing Criminal Justice Organizations	>Online Course		3		R. Corbett
10252	CRIM.5400-031	NEW! Criminal Profiling	>Online Course		3		J. Brown
10255	CRIM.5410-061	Forensic Psychology	>Online Course		3		I. Packer
10278	CRIM.5660-031	NEW! Transportation Systems Safety and Security	>Online Course		3		G. Gordon
10239	CRIM.5700-031	Crisis and Emergency Management	>Online Course		3		T. Croft
10277	CRIM.5720-031	Comparative Terrorism and Counter Terrorism	>Online Course		3		J. Forest
10281	CRIM.5740-031	Overview of Homeland Security	>Online Course		3		T. Croft
10282	CRIM.5750-031	Contemporary Security Studies	>Online Course		3		J. Forest
10287	CRIM.5780-031	Intelligence Analysis Policy and Practice	>Online Course		3		C. Hickey
13100	CRIM.5900-031	Descriptive and Inerential Statistics	>Online Course		3		D. Faggiani
10317	CRIM.5910-031	Research Design	>Online Course		3		K. Jordan
10284	CRIM.6130-031	Law and Public Policy	>Online Course		3		C. Harris
10249	CRIM.6300-061	Victimology	>Online Course		3		E. Buzawa
10327	CRIM.6310-061	Intimate Partner Violence	>Online Course		3		E. Buzawa
10256	CRIM.6400-061	Criminal Mind and Behavior	>Online Course		3		A. Lincoln
10259	CRIM.6400-062	Criminal Mind and Behavior	>Online Course		3		A. Lincoln
10260	CRIM.6410-061	NEW! Mental Health & Criminal Justice	>Online Course		3		K. Orr
13308	CRIM.6500-061	NEW! Violence in America	>Online Course		3		J. Byrne
10285	CRIM.6510-061	Criminal Homicide	>Online Course		3		P. Tracy
10342	CRIM.6580-031	Issues in Computer Crime and Cyber Security	>Online Course		3		S. McGaunn
10283	CRIM.6680-031	Science & Technological Dimensions of National Security	>Online Course		3		D. Boyd
10345	CRIM.6990-031	Security Studies Capstone Research Paper	>Online Course		3		J. Forest
EDUCATION							
8223	EDUC.5021-031	Issues, Mandates and Ethics in Special Education	>Online Course		3		E. O'Brien
8226	EDUC.5220-061	Young Adult Literature	>Online Course		3	RL	L. Dagostino
8230	EDUC.5290-031	Treatment Reading and Language Disabilities	>Online Course		3	RL, P- EDUC.5280	E. Ambe
8232	EDUC.5511-031	Literacy Coach: Practicum II	>Online Course		3	RL, Permission of instructor	J. Gelb
8237	EDUC.5932-031	Principalship: Practicum II	>Online Course		2	EA, APP, Matriculated only	J. Gilmore
8244	EDUC.6100-061	Teaching Reading in Content Area	>Online Course		3		J. Brown
8246	EDUC.6130-031	Leading the Professional Learning Community	>Online Course		3	EA, APP, Matriculated only	J. Nehring
8250	EDUC.6230-031	School Policy and Law	>Online Course		3	EA, APP, Matriculated only	D. Troughton
8253	EDUC.6240-031	Assessment in Learning	>Online Course		3	CI	M. Scribner-Maclean
8255	EDUC.6300-031	Educating Diverse Populations	>Online Course		3	CI, RL	M. Kim
8258	EDUC.6300-032	Educating Diverse Populations	>Online Course		3	CI, RL	S.Thompson
8261	EDUC.6320-031	The Inclusive School	>Online Course		3	EA, APP, Matriculated only	P. Uy
8264	EDUC.6350-031	Dynamics of Curriculum Change	>Online Course		3		J. Nehring
8266	EDUC.6370-031	History and Theory of Curriculum	>Online Course		3	CI	J. Boccia
13379	EDUC.6380-062	Curriculum Design (K-12)	>Online Course		3	CI	J. Walsh
8358	EDUC.6423-061	Program Evaluation	>Online Course		3		J. Lohmeier
8360	EDUC.6430-031	The Skillful Teacher	>Online Course		3	CI	R. Gower
8362	EDUC.6441-061	NEW! Models of Teaching	>Online Course		3		P. Fontaine
8363	EDUC.6501-031	Capstone Project: Advanced Programs	>Online Course		3	M.Ed. Matriculated only	M. Scribner-MacLean
8365	EDUC.6560-031	Ed.S Seminar	>Online Course		3	Ed.S. Matriculated only	J. Boccia
8366	BIOL.5470-031	Evolution in Context for Teachers	>Online Course		3	CI(sci)	D. Lustick
8436	PHYS.5010-031	Energy, Force and Motion	>Online Course		3	CI(sci)	A. Mittler
**The Graduate School of Education offers Online Courses leading to three Masters of Education degrees: (1) Educational Administration (EA); (2) Reading and Language (RL); Curriculum and Instruction (CI) or Curriculum and Instruction: Science Concentration (CI)(sci). The letters in the prerequisites column refer to which programs each course is aligned. Additionally, Ed.S. Online degrees are offered in Curriculum and Instruction, Reading and Language, and Administration, Planning and Policy (APP), are offered.							
ELECTRICAL AND COMPUTER ENGINEERING							
10109	EECE.5620-001	VHDL/Verilog Synthesis and Design	Mon	6:30-9:20 pm	3		T. Kelly
HEALTH							
10510	MLSC.5510-031	Advanced Pathophysiology	>Online Course		3	P- Students in Clinical Lab Science (MS); or Graduate Certificate in Clinical Pathology, Nutritional Science, or Public Health Lab Science; or permission of instructor.	K. Doyle
10513	MLSC.6130-031	Infectious Disease	>Online Course		3	P- Students in Clinical Lab Science (MS); or Graduate Certificate in Clinical Pathology, Nutritional Science, or Public Health Lab Science; or permission of instructor.	G. He
8595	PUBH.5020-071	Organizational Behavior in Healthcare (Blended Course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/19, 2/9, 3/1, 3/22, 4/12, 4/26 and Online sessions held Tues. from 7:30-9:00 pm on 1/26, 2/2, 2/16, 2/23, 3/8, 3/29, 4/5, 4/19)	Tues	5:30-8:30 pm	3		J. Curtis
8597	PUBH.5060-071	Quantitative Methods in Healthcare Management (Blended Course: Held at UMass Lowell South Campus Face-to-Face meetings: 1/23, 2/13, 3/5, 3/26, 4/9, 4/30 and Online sessions held Thurs. from 7:30-9:00 pm on 2/4, 2/11, 2/25, 3/3, 3/24, 4/7 4/21, 4/28)	Sat	9:00 am-12:00 pm	3		A. Lee

GRADUATE CREDIT COURSES

ISIS Class Course No. No.		Title	Days	Time	Cr (Con)	P: Prerequisite Corequisite/Other	Instructor
8598	PUBH.5110-071	Healthcare Finance (Blended Course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/23, 2/13, 2/27, 3/12, 4/9, 4/30 and Online sessions held Tues. from 7:00-9:30 pm on 1/26, 2/2, 2/16, 3/1, 3/22, 4/5, 4/19)	Sat	1:00-4:00 pm	3		R. Mullin
8599	PUBH.5120-041	Operations Analysis and Quality Improvement (Blended Course: Held at UMass Lowell South Campus. Face to-Face meetings: 1/25, 2/8, 3/7, 3/28, 4/11, 4/25 and Online sessions held Mon. 7:30-9:00 pm on 2/1, 2/15, 2/22, 2/29, 3/21, 4/4, 4/18).	Mon	5:30-8:30 pm	3		K. Flodin
8600	PUBH.5140-061	Healthcare Management	>Online Course		3		J. Mahan
8616	PUBH.5310-061	Health Informatics	>Online Course		3		G. Marcus
8602	PUBH.6070-061	Healthcare Information Systems	>Online Course		3		D. Rose
8603	PUBH.6160-071	Law and Ethics in Healthcare (Blended Course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/20, 2/3, 2/24, 3/23, 4/6, 4/27 and Online sessions held Wed. from 7:30-9:00 pm on 1/27, 2/10, 2/17, 3/2, 3/9, 3/30, 4/13, 4/20)	Wed	5:30-8:30 pm	3		M. Guillemette
8596	PUBH.6270-071	Socioeconomic Inequalities in Health (Blended course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/23, 2/13, 3/5, 4/2, 4/16, 4/30, and Online sessions held Tues. from 7:30-9:00 pm on 1/26, 2/2, 2/23, 3/8, 3/29, 4/5, 4/19)	Sat	1:00-4:00 pm	3		R. Holmes
8609	PUBH.6320-071	Healthcare Information Systems Planning (Blended Course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/19, 2/16, 3/15, 3/29, 4/19, 4/26 and Online sessions held Tues. from 7:30-9:00 pm on 1/26, 2/2, 2/9, 2/23, 3/1, 3/8, 3/22, 4/5)	Tues	5:30-8:30 pm	3		P. Grotton
8610	PUBH.6330-061	Healthcare Database Design	>Online Course		3		G. Robinson
8612	PUBH.6350-031	Healthcare Project Management	>Online Course		3		D. Flodin
8611	PUBH.6380-041	Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Campus. Face-to-Face meetings: 1/21, 2/18, 3/17, 3/31, 4/21, 4/28 and Online sessions held Thurs. from 7:30-9:00 pm on 1/28, 2/4, 2/11, 2/25, 3/3, 3/10, 3/24, 4/7)	Thurs	5:30-8:30 pm	3		P. Grotton
8613	PUBH.6390-061	Electronic Health Records Systems	>Online Course		3		M. Meyer
8614	PUBH.7330-071	Capstone Project (Capstone presentation night May 4, 6:00-8:00 pm and Capstone seminar held Wed. from 6:00-8:00 pm on 1/28, 2/18, 3/10, 4/14)	Wed	6:00-8:00 pm	3	P: Requires instructor permission	A. Lee

INFORMATION TECHNOLOGY

12585	MSIT.5170-031	Operating Systems Foundations	>Online Course		3		W. Moloney
12596	MSIT.5180-031	Large Scale Application Deployment	>Online Course		3		J. Gimourginas
12599	MSIT.5360-031	Data Mining	>Online Course		3		C. Chen/T.Ge
12603	MSIT.5410-031	Information Security, Privacy and Regulatory Compliance	>Online Course		3		T. Cummings
12977	MSIT.5430-031	Intrusion Detection Systems	>Online Course		3		H. Lambright
12586	MSIT.5600-031	Network Infrastructures	>Online Course		3		B. Liu
12588	MSIT.5610-031	Computer Network Security	>Online Course		3		J. Wang
12591	MSIT.5630-031	Secure Mobile Networks	>Online Course		3		G. Chen
12687	MSIT.5650-031	Cloud Computing	>Online Course		3		R. Bell

MECHANICAL ENGINEERING

8254	MECH.5750-031	Industrial Design of Experiment	>Online Course		3		S. Shina
8256	MECH.5760-031	Engineering Project Management	>Online Course		3		S. Shina

PLASTICS ENGINEERING

8400	PLAS.5030-031	Mechanical Behavior of Polymers	>Online Course		3	P: PLAS.2110, PLAS.2020, MATH.2310	M. Wei
8403	PLAS.5060-031	Polymer Structure, Properties and Applications	>Online Course		3		S. Driscoll
8405	PLAS.5440-031	Advanced Plastics Materials	>Online Course		3		S. Driscoll
8407	PLAS.5530-031	Medical Device Design	>Online Course		3		S. Shady-Elghamrawi
8409	PLAS.5760-031	Advanced Mold Design	>Online Course		3		R. Stack

PROFESSIONAL SCIENCE MASTER'S PROGRAM

8594	PSMA.5350-031	Project Management for Scientists	>Online Course		3		C. Scott
8368	ENTR.5650-061	Technological Entrepreneurship	>Online Course		3		J. Wilson

PSYCHOLOGY

8367	PSYC.5040-031	The Family System	>Online Course		3		S. Cappello
8369	PSYC.5610-031	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	R. Serna
8370	PSYC.5610-032	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	D. Bailey
8372	PSYC.5610-033	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	N. Aguila
8373	PSYC.5610-034	Introduction to Behavioral Intervention in Autism	>Online Course		3	P: Coursework in the psychology of child development, or related experience	A. Perry
8374	PSYC.5620-001	Teaching and Positive Behavioral Support in Autism	Tues	3:30-6:20 pm	3	P: or C: PSYC.5610	R. Rosales
8376	PSYC.5620-031	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: PSYC.5610	J. Potter
8377	PSYC.5620-032	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: PSYC.5610	R. Markovits
8379	PSYC.5620-033	Teaching and Positive Behavioral Support in Autism	>Online Course		3	P: or C: PSYC.5610	Y. Padilla Dalmau
8380	PSYC.5650-031	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: PSYC.5610	P. Girolami
8382	PSYC.5650-032	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: PSYC.5610	N. Hausman
8383	PSYC.5650-033	Measurement and Experimental Design in Behavioral Intervention	>Online Course		3	P: or C: PSYC.5610	H. Eilers
8384	PSYC.5660-031	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: PSYC.5620	E. Shumate
8385	PSYC.5660-032	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: PSYC.5620	S. Contrucci-Kuhn
8387	PSYC.5660-033	Functional Analysis and Treatment of Challenging Behavior	>Online Course		3	P: PSYC.5620	C. Borrero
8388	PSYC.5680-031	Behavioral Intervention Program Models in Autism	>Online Course		3	P: PSYC.5620	D. Shade-Monuteaux
8389	PSYC.5680-032	Behavioral Intervention Program Models in Autism	>Online Course		3	P: PSYC.5620	J. Schmidt
8391	PSYC.5720-031	Legal and Ethical Issues in Professional Practice	>Online Course		3	P: PSYC.5650 or PSYC.5660	R. Markovits
8392	PSYC.5720-032	Legal and Ethical Issues in Professional Practice	>Online Course		3	P: PSYC.5650 or PSYC.5660	D. Kuhn
8411	PSYC.5740-061	Community and Social Interventions in Autism	>Online Course		3		A. Hillier

Graduate Education BUILDS Careers

Earn an Advanced Degree at UMass Lowell



UMass Lowell prepares students to work in the real-world, solve real problems and help real people.

UMass Lowell offers advanced degrees in engineering, education, health sciences, management, music, sciences and social sciences.

The wide variety of options allows students to develop specialized programs that meet their career and life goals. Top quality academic programs, vigorous hands-on learning and world-class faculty give graduates the combination of knowledge and experience that prepares them to become effective practitioners and industry leaders.

- Top quality programs
- Affordable
- Convenient
- Part-time or full-time study options
- Online and on campus options
- National and Regional Accreditation
- Thesis, project and coursework-only options available in most Master's programs

Many Master's programs offer an internship or field experience and a variety of options that allow you to specialize your degree.

Scholarship opportunities for new, highly qualified, full-time Master's candidates.

No separate application is necessary. Candidates will be considered during admissions review.*

*Not applicable to online courses/programs offered through the Division of Online and Continuing Education.

Visit www.uml.edu/grad to explore the possibilities.

UMass Lowell Graduate Admissions

Cumnock Hall, Suite 110, 31 University Ave, Lowell, MA 01854-5104



Save the Date!

Spring Graduate Open House and Walk-in Registration

Come and learn which program is right for you!

**Wednesday, January 13, 2016
from 3:00 - 7:00 pm**

UMass Lowell Inn and Conference Center,
50 Warren Street, Lowell, MA

RSVP at www.uml.edu/Grad/open_house.aspx

Spring Classes begin Tuesday, January 19, 2016

NEW Graduate Programs

Master of Arts in History

The Master of Arts in History is a thirty credit program with concentrations in U.S. History and Global Comparative History. Program requirements may be fulfilled by completing:

- 1) 10 three-credit graduate courses;
- 2) nine three-credit graduate courses and a three-credit project or internship; OR
- 3) eight three-credit graduate courses and a six-credit thesis.

The degree program is strongly competitive, perhaps even unique, in several respects. These include the History Department's strong working relationships with numerous area school systems and public history institutions through Teaching American History and National Endowment for the Humanities programming with area educators, numerous public history projects with area organizations like the Lowell National Historical Park, and a widely published faculty.

For more information about the program and Spring 2016 course offerings, contact Dr. Robert Forrant at 978-934-2904 or Robert_Forrant@uml.edu.

Master of Science in Engineering Management (MSEM)

UMass Lowell's Master of Science in Engineering Management provides students with an in-depth study of the modern technical enterprise and different methodologies and principles to develop new products/projects or enhance existing ones. The MSEM is a 30 credit program which offers students the opportunity to choose a concentration in 1) Design and Manufacturing; 2) Engineering Services/Infrastructure Management; or 3) Operations and Supply Management, and all students

choose either a Professional Capstone Practice or a coursework only option.

The MSEM is a specialized degree, preparing students for a wide range of engineering management careers. Graduates of this program can find employment as engineering managers, senior quality, process, manufacturing, supplier and design.

For more information, please contact Dr. Sammy Shina at 978-934-2590 or Sammy_Shina@uml.edu.

The demand for engineering management professionals has been growing regionally, nationally, and globally. The Bureau of Labor Statistics^{1,2}, projects the annual growth rate in the U.S. of architectural and engineering manager positions from 2012 to 2022 to be 7%, and for the industrial engineering positions to be 5%, with a higher increase for the state of Massachusetts (18%)³

¹ <http://www.bls.gov/ooh/management/architectural-and-engineering-managers.htm>

² <http://www.bls.gov/ooh/architecture-and-engineering/industrial-engineers.htm>

³ http://lmi2.detma.org/Lmi/Occupation_Projection_Jobs.asp, accessed May 22, 2014

Master of Science in Business Analytics

The Master of Science in Business Analytics is a thirty credit program offered through the Manning School of Business. The program provides students flexibility in choosing full or part-time study, and on campus or online courses. Students may also choose an area of concentration, such as Big Data Analytics, Marketing Analytics, Managerial Decision Making or Finance Analytics.

In order to pursue a successful career in business analytics, a student needs to possess knowledge and skills related to information technology, data management, statistics, and other quantitative analysis techniques. Students must also understand the different functional areas of business, like accounting, finance, marketing, management, and operations, and to effectively communicate their ideas, approaches, and insights to decision makers. The curriculum was designed to provide students with these skills.

For more information, please contact Leticia Porter at 978-934-2853 or Leticia_Porter@uml.edu.

Featured Graduate Programs

The College of Health Sciences

Master of Science in Public Health

UMass Lowell's Master of Public Health (MPH) is a 42 credit program which provides students the knowledge essential to the practice of public health on a global scale. Students develop a strong foundation in public health by studying environmental health issues, biostatistics, epidemiology, health policy and management, and social and behavioral determinants of health, as well as study in specialization areas so that graduates gain the expertise necessary to address some of the world's most pressing problems. Students must choose an option within the degree program, which requires core and elective coursework specific to the option. Specialization areas include options in 1) Epidemiology; 2) Nutrition; 3) Population Health; 4) Healthcare Management.

All MPH students will take five core public health courses plus a 2-semester, 6-credit MPH practicum (21 credits total) and 21 credits of specialization specific courses. These option-specific courses comprise the remainder of this 42 credit program.

For more information visit www.uml.edu/Health-Sciences/Public-Health/Programs-of-Study/masters/, or contact Dr. Leland Ackerson at 978-934-3128 or Leland_Ackerson@uml.edu.

The Manning School of Business

Master of Science in Finance

Available entirely online or as a mix

The demand for finance professionals has been growing regionally, nationally, and globally. The Bureau of Labor Statistics projects the annual growth rate in the U.S. of finance manager positions from 2010 to 2020 to be 9%, and for financial analyst positions to be 23%. Further, the global demand for finance professionals is expected to grow as more countries expand their financial systems.

The Master of Science in Finance is a 30 credit, specialized degree, preparing students for a wide range of finance careers. Graduates of this program can find employment as finance managers, financial analysts, or other similar positions. For undergraduate business majors, the MSF curriculum consists of five required courses in Finance and five electives (two of which are recommended to be in Finance). Interested applicants whose undergraduate degree was not in business may apply; however, they will have to take a series of prerequisite courses, which will not count towards the 30 credit MSF. Students may attend full or part-time.

For more information, contact Professor Chan Wung Kim at MSF@uml.edu or 978-934-2516.

Spring 2016 courses run from 01/19/2016 - 05/07/2016 and are three credits, unless otherwise indicated. Offerings include:

- FINA 5010 - Business Financial Analysis, Tuesdays from 6:30 - 9:45 pm (2 credits), 03/21- 05/07/2016
- FINA 6010 - Corporate Finance, Mondays from 3:30 - 6:20 pm, OR Wednesdays from 6:30 - 9:20 pm
- FINA 6020 - Advanced Corporate Finance, Mondays from 6:30 - 9:20 pm
- FINA 6210 - Security Analysis and Portfolio Management, Tuesdays from 6:30 - 9:20 pm
- FINA 6610 - Financial Risk Management, Mondays from 6:30 - 9:20 pm
- FINA 7400 - Corporate Finance Theory, Tuesdays from 3:30 - 6:20 pm
- FINA 7410 - Investments Theory, Thursdays from 3:30 - 6:20 pm

Not ready for a degree program? UMass Lowell also offers a 12-credit graduate certificate in Financial Management.

For more information regarding the Manning School of Business and the all the graduate business programs offered, including the MBA (on campus or online), the MS in Innovation and Entrepreneurship (MSITE), the MS in Accounting, the MS in Business Analytics, the MS in Finance, and the Ph.D. in Business Administration, visit <http://www.uml.edu/MSB/Masters-Programs/default.aspx>.

Master of Science in Innovation and Technological Entrepreneurship

The MS ITE provides engineers, business majors and scientists with the skills and knowledge required to drive innovation in today's collaborative, global workforce. The 30-credit program also offers a Healthcare Innovation and Entrepreneurship option for healthcare professionals, such as hospital managers/administrators, clinicians, physicians and other medical professionals who need to understand and manage the impact of emerging technologies and innovations in the healthcare industry.

Core Requirements for the MS ITE (4 courses-12 credits):

- ENTR.6500 Innovation & Emerging Technology
- MKTG.6300 Market Research for Entrepreneurs
- ENTR.6350 Financing Innovation & Technology Ventures (Spring 2016)
- ENTR.6450 New Product Development (Spring 2016)

Plus 4 Electives (12 credits)

Required Program Capstone (2 courses, 6 credits)

The Healthcare Innovation & Entrepreneurship Option

includes the same 12-credit core as the MS ITE degree Program Core, plus 15 credits specific to the HI&E option, and a required three credit practicum:

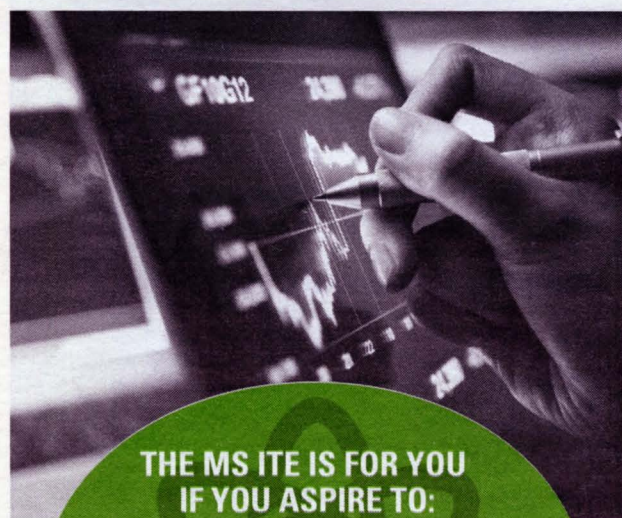
- MS ITE Core (4 courses-12 credits)
- Option Core (5 courses-15 credits)
 - ENTR.6550 Corporate Entrepreneurship
 - MGMT.6400 Building and Managing Teams
 - Plus 3 courses from an approved list of courses offered by Health Informatics and Management
- Program Capstone (3 credits)
- Practicum: HealthCare Innovation & Entrepreneurship Project

For more information, contact Professor Ashwin Mehta at 978-934-2728 or email MSITE@uml.edu. Also see the website of The Center for Innovation and Entrepreneurship at www.uml.edu/Innovation-Entrepreneurship/

The College of Health Sciences and the School of Nursing offer advanced degrees in:

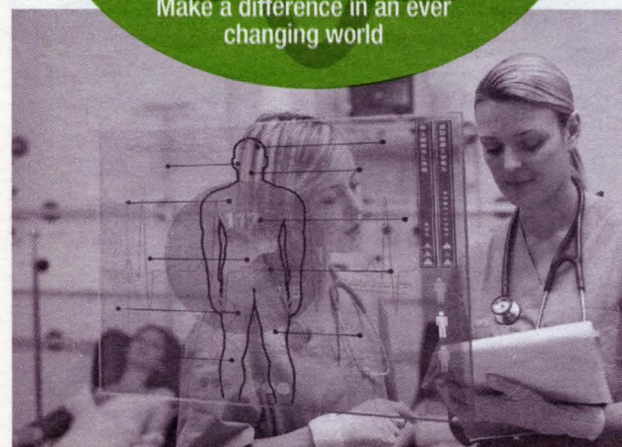
- Clinical Lab Sciences (MS)
- Health Informatics & Management (MS)
- Nursing (MS, DNP, Ph.D.)
- Pharmaceutical Sciences (MS, Ph.D.)
- Physical Therapy (DPT)
- Public Health (MPH)
- Work Environment Policy (MS, Sc.D.)

To learn more about these programs visit <http://www.uml.edu/Health-Sciences/Programs.aspx>



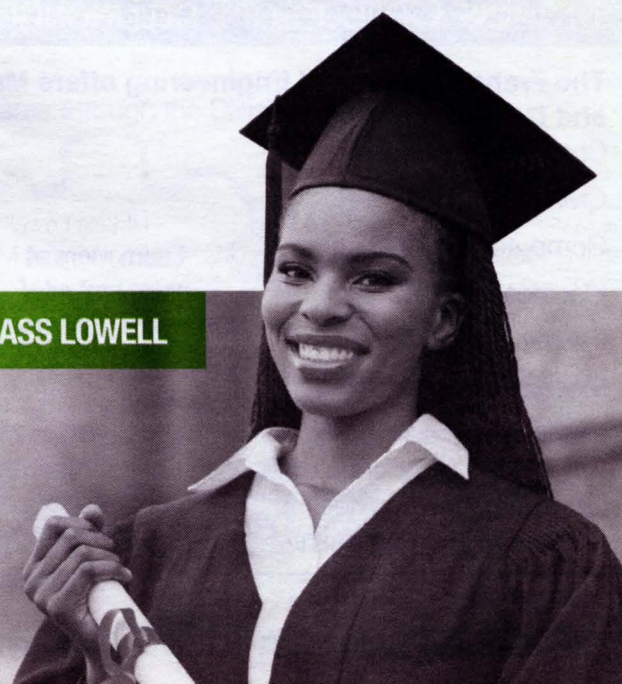
THE MS ITE IS FOR YOU IF YOU ASPIRE TO:

- Start, build and grow a business enterprise
- Innovate new products and processes
- Create wealth and jobs
- Become an entrepreneurial manager
- Make a difference in an ever changing world



BACHELORS TO MASTERS PROGRAMS AT UMASS LOWELL

Spend One More Year, Earn One More Degree



At UMass Lowell, there are dozens of ways to earn both a bachelor's and a master's degree in as little as five years. Continue from bachelor's to master's level studies within your own major or select a complementary major and tailor your education to meet your academic and career goals.

Benefits to you:

Stand Out: Enter the job market with an immediate competitive advantage.

Save Time: Graduate degree granting department may allow course credit benefits to qualifying candidates

Save Money: With a qualifying GPA, you can waive the Graduate Record Exam and the graduate application fee. And you pay for fewer credits since some of your undergraduate courses may count toward your advanced degree.

Learn more at www.uml.edu/bachelorstomasters

Graduate School of Education

Master of Education, Higher Education Administration

The M.Ed.: Higher Education Option

focuses on policy and practice in Higher Education. Candidates complete 30 credits of coursework, with some courses offered on campus and some online, providing the flexibility for working professionals to complete the degree in a timely and convenient manner

The program is open to individuals who have had substantial experiences in higher education work while undergraduates, or who are currently working in higher education.

For information about the program contact Dr. Charmaine Branchaud at Charmaine_Branchaud@uml.edu or 978-934-4658.

The Graduate School of Education offers graduate degrees at three levels — Master's (M.Ed.), Education Specialist (Ed.S.) and Doctoral (Ed.D. and Ph.D.) — and twelve-credit graduate certificates.

Degree programs not only prepare new teachers for the classroom, but also provide experienced teachers with opportunities to serve in roles such as reading specialist, school principal, human services administrator, college faculty, policy planning, consultants, and other leadership positions.

ATTENTION MASSACHUSETTS TEACHERS:

Master's Degree in Curriculum & Instruction: Special Education Option

This specialized Master's Degree program is offered mostly online, but includes 3 on-campus courses and a practicum. For details visit <http://www.uml.edu/Education/Already-a-teacher/Curriculum-Instruction.aspx>

Explore your opportunities at <http://www.uml.edu/Education>

Francis College of Engineering

The Francis College of Engineering offers Master's and Doctoral Programs in:

Chemical Engineering

Civil Engineering

Computer Engineering

Electrical Engineering

Energy Engineering

Mechanical Engineering

Plastics Engineering,

And Master of Science degrees in Environmental Studies (Environmental Engineering Sciences) and Engineering Management

Learn more at
[www.uml.edu/
Engineering/Incoming-
Students/Graduate/](http://www.uml.edu/Engineering/Incoming-Students/Graduate/)

UMass Lowell and MIT are the only schools in Massachusetts that offer advanced degrees in atmospheric science.

NOTE: The preferred Fall 2016 deadline for PhD applications for the College of Engineering is January 15, 2016. The preferred deadline for most other doctoral programs is February 1, 2016. (The deadline for all applications to the Doctorate in Physical Therapy for Fall 2016 has passed. Applications are now being accepted for Fall 2017 for this program.) Preferred deadlines are for Teaching Assistantship and Fellowship/Scholarship consideration within the department or college. Please check with the academic department for deadline verification.

College of Fine Arts, Humanities and Social Sciences

Did you know UMass Lowell's College of Fine Arts, Humanities and Social Sciences offers both doctoral and Master's degrees?

Doctoral programs:

- Applied Psychology and Prevention Science (PhD),
- Criminal Justice (PhD), and
- Global Studies (PhD).

Master's programs:

Autism Studies (MS), Community Social Psychology (MA), Criminal Justice (MA on campus or on-line), History (MA), Music – Education, and Community Music options (MM), Peace & Conflict Studies (MA), Security Studies (MS and MA degrees, on-line), and Sound Recording Technology

Learn more at www.uml.edu/FAHSS/Graduate-Programs.

The Kennedy College of Sciences

The College of Sciences offers graduate programs in the following:

- Biological Sciences (MS)
- Chemistry (MS, Ph.D.)
- Computer Science (MS, Ph.D.)
- Environmental Studies (Atmospheric Sciences and Geosciences) (MS)
- Information Technology (MS)
- Mathematics (MS)
- Physics and Applied Physics (MS, Ph.D.)
- Medical Physics (MS, Ph.D.)
- Radiological Sciences and Protection (MS, Ph.D.)
- Polymer Science (interdisciplinary) (Ph.D.)

For more information, visit
[www.uml.edu/Sciences/
Departments-Programs/
Departments-and-Programs.aspx](http://www.uml.edu/Sciences/Departments-Programs/Departments-and-Programs.aspx)

Master of Science in Environmental Studies

Students may pursue MS in Environmental Studies program options in Environmental Engineering Sciences (offered through the College of Engineering) or in Atmospheric Sciences (offered through the Department of Earth, Atmospheric and Environmental Sciences in the College of Sciences). Students may choose to complete their program via coursework only or by incorporating a thesis in lieu of six credits of the required 18 credits of electives. Most courses are offered in the evening to accommodate working professionals.

Environmental Engineering Sciences Option (30 credits total)

Core Courses (9 credits)

- ENVE.5100 Water Resources Management
- CIVE.5730 Solid Waste Engineering
- ATMO.5230 Air Pollution Control or ENVE.5710 Air Pollution Phenomenology

Plus 21 credits of approved elective courses (or 15 credits of electives and six credits of thesis) in Civil Engineering or Environmental Studies.

For more information, contact Dr. Xiaoqi (Jackie) Zhang at Xiaoqi_Zhang@uml.edu or 978-934-2287

Atmospheric Sciences Option (30 credits total)**

Core Courses (9 credits)

- ATMO.5010 Boundary Layer Meteorology
- ENVI.5750 or CHEM.5750 Physical Chemistry for Environmental Studies and one of the following:
 - PUBH.5500 Environmental Law
 - ECON.6150 Environmental and Natural Resources Economics

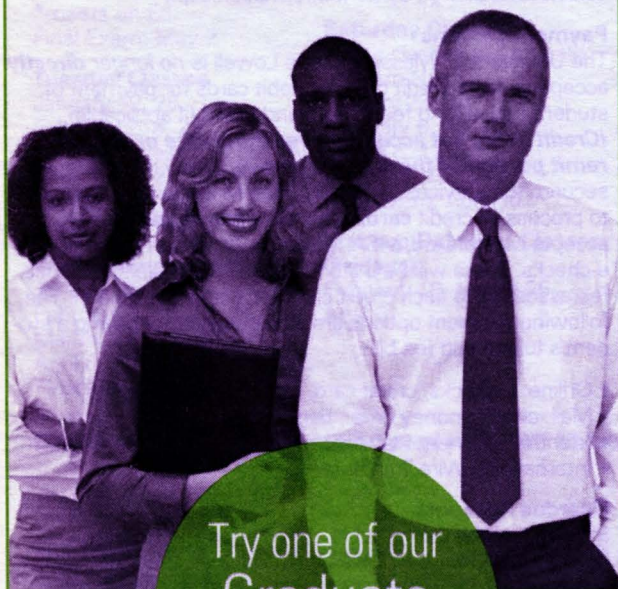
Plus 21 credits of approved elective courses (or 15 credits of electives and six credits of thesis) in Environmental, Earth and Atmospheric Sciences in the College of Sciences.

For more information, contact Dr. Kate Swanger at Kate_Swanger@uml.edu or 978-934-3069.

** Professional Science Master's Options are also offered in Atmospheric Sciences and Geosciences.

Graduate Certificate Programs

Not ready for a degree program?



Try one of our
Graduate
Certificates!

UMass Lowell Graduate Certificates are designed to provide knowledge and expertise vital to today's changing and complex work place. In many cases, courses may be applied toward an appropriate master's degree program. Most certificates consist of four courses (a total of 12 graduate credits). Graduate Certificates are a great way to start or continue your graduate study.

WHO CAN APPLY?

- Holders of an appropriate bachelor's degree

HOW TO APPLY?

- Apply online or download an application at www.uml.edu/grad
- Application Fee is \$50.00 for all applicants
- **NO Graduate Record Exam (GRE) Required**

Did You Know?

- Credits earned from a graduate certificate may be used toward a related graduate degree with the approval of the graduate program coordinator.
- Students who complete a graduate certificate with a cumulative GPA of 3.50 or better in a UMass Lowell graduate certificate program may be able to waive the GRE when applying to a related master's degree.

See the full list of certificate program descriptions, including course details at www.uml.edu/Academics/Graduate-programs/

Gainful Employment Disclosure Information

Completion rates, median loan debts and program costs are outlined for each certificate program and available in PDF format at www.uml.edu/GEDI.

Financial Assistance for Graduate Students

Program: Dean's Fellowships

Criteria: Newly admitted full-time, in-state, New England Regional and Proximity Master's candidates not receiving an assistantship will be considered. No additional application required.*

Amount: \$2,000 for one year (\$1,000 per semester for the first two semesters). Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Provost's Fellowships

Criteria: Newly admitted full-time, out-of-state and international Master's candidates not receiving an assistantship will be considered. No additional application required.*

Amount: \$4,000 for one year (\$2,000 per semester for the first two semesters). Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Provost's Fellowship for Teacher Licensure

Criteria: Newly admitted full-time teacher licensure candidates regardless of residency will be considered. No additional application required.*

Amount: \$5,000 for one year (award is split between trimesters – Summer, Fall, Spring) Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Federal Teach Grant

Criteria: Must be a U.S. citizen or eligible non-citizen; maintain a cumulative GPA ≥ 3.25 each semester; be enrolled in coursework or plan to complete coursework toward a career in teaching in a high need subject area UMass Lowell eligible program; complete a TEACH Grant Counseling and sign a TEACH Grant Agreement each year. For additional information go to <http://www.uml.edu/thesolutioncenter/financial-aid/Receiving-Aid/Types-Aid/graduate/grants.aspx>

Amount: Up to \$4,000/year for two years

Program: Federal Professional Nurse Traineeship Grant Program

Criteria: Federally funded grant available to graduate nursing students. Contact the Nursing Department at 978-934-4525 for additional information and application procedure.

Amount: Award amounts vary and are dependent upon funding.

Program: Teaching and Research Assistantships*

Criteria: Full-time, on-campus doctoral students. All requests for teaching and research assistantships should be directed to the graduate coordinator or chairperson in a particular academic department. There are a limited number of assistantships for qualified, full-time students and awards are extremely competitive.

Amount: Stipend for the academic year, plus a tuition and operating fee waiver as specified by the agreement between UMass Lowell and UAW/Graduate Employees Organization.

*Students completing courses and online programs through the Division of Online and Continuing Education are not eligible.

Federal Loan Programs:

William D. Ford Federal Direct Unsubsidized Loan

(Eligibility does not require demonstrated financial need)

Federal Direct Grad PLUS Loan

(Eligibility does not require demonstrated financial need)

Required for all loan programs: Graduate degree candidates enrolled in 6 credits are eligible to apply. Students must file a Free Application for Federal Student Aid (FAFSA).

For more information go to: www.uml.edu/financialaid

Special Savings Opportunities

New England Regional Student Program*

Applicants from other New England states may be eligible for a tuition rate equal to that of in-state tuition plus 50%. Students must meet the eligibility requirements for their state as well as the University, and must enroll in an approved regional program. Qualifying programs are those not offered on public campuses in a student's home state. For graduate programs eligible for the NERSP, please contact the Office of Graduate Admissions at 978-934-2390 or email graduate_admissions@uml.edu

Proximity Rate Program*

The Proximity Rate Program offers reduced tuition to Southern New Hampshire students living within 20 miles of the UMass Lowell campus. For additional information, please contact the Office of Graduate Admissions at 978-934-2390 or visit <http://www.uml.edu/thesolutioncenter/bill/tuition-fees/Graduate/>

* Proximity and New England Regional Rates apply to graduate degree and certificate programs, **except** for courses offered through the Division of Online and Continuing Education.

To qualify for these special rates you must be a citizen or permanent resident of the U.S.

GENERAL INFORMATION

See our Website at <http://continuinged.uml.edu> for detailed information.

You can also visit the Graduate Programs Website at www.uml.edu/grad

The Solution Center Hours

University Crossing, 220 Pawtucket Street, Suite 131
Monday-Thursday: 8:30 am-6:30 pm
Friday: 10:00 am-5:00 pm

Division of Online and Continuing Education

Southwick 203, UML North
Monday-Thursday: 8:30 am-7:00 pm
Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

December 24: 8:30 am-2:00 pm
December 25: University closed
December 28: 8:30 am- 5:00 pm
December 29: Winter Intersession classes begin
December 29-30: 8:30 am-7:00 pm
December 31: OCE closed
December 31-January 1. No classes for Winter Intersession
January 1 University closed
January 2: 8:30 am-2:00 pm
January 12: Virtual Open House 6:00-7:00 pm
January 18: Martin Luther King Day (University Closed)
February 15: President's Day (University Closed)
March 13-19: Spring Recess
April 18: Patriots' Day (University Closed)

April 29, 2016: Last day for students to complete work for incomplete Spring & Summer 2015 semester courses.

Commencement: May 14, 2016

Phone Directory

Online and Continuing Education	(978) 934-2474
Bookstore — UML River Hawk Shop	(978) 934-2623
Faculty and Student Support Center	(978) 934-2474
Fax Number	(978) 934-4006
Registrar's Office	(978) 934-2550
Fax Number	(978) 934-4076
Graduate School of Education	(978) 934-4600
SiS and email HELP Desk	(978) 934-4357
Library — UML North (Alumni/Lydon)	(978) 934-3205
Library — UML South (O'Leary)	(978) 934-4550
UMass Lowell Main Number	(978) 934-4000
UMass Lowell Directions	(978) 934-5800
or www.uml.edu/maps	
Weather Cancellations	(978) 934-2121
The Solution Center	(978) 934-2000
(Financial Aid, Billing, and Registration)	

Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The Bachelor degree programs in Electronic Engineering Technology and Mechanical Engineering Technology are accredited by the Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

Catalog

Students should refer to the Division of Online and Continuing Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available online at <http://continuinged.uml.edu>.

Admission into an Undergraduate Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Please note: Students may apply to Bachelor's degree programs three years after completing their high school degrees. Applications for all programs are accepted on a rolling admissions basis. Please apply online at our website at <http://continuinged.uml.edu/apply.htm> for our degree and certificate programs. Note, there is a \$60 non-refundable application fee for admission into the undergraduate degree programs. There is no application fee for a certificate program.

Admission into a Graduate Certificate or Degree Program

Students interested in applying for Graduate degree or certificate programs should access the application on the Graduate Admissions website at: www.uml.edu/grad/. Students with Bachelor's degrees from accredited institutions may be eligible to enroll as non-degree students prior to formally matriculating into a Graduate degree or Certificate program. The non-degree form, including instructions, is available at: <http://www.uml.edu/thesolutionscenter/forms.aspx>.

Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2015-2016 academic year must apply for graduation. Details on how to apply for graduation can be found at <http://continuinged.uml.edu/policies/graduation.cfm>.

Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition and exit survey to the Division of Online and Continuing Education. See the Online and Continuing Education website under Miscellaneous Forms at <http://continuinged.uml.edu>

IMPORTANT: PLEASE NOTE: Students must have applied for admission into a certificate program before completing the certificate requirement and the Certificate Completion Form. Failure to do so may affect the awarding of the certificate date and/or receipt of the certificate award. Certificates are awarded three times a year: Spring, Summer and Fall.

Course Grades

Grades for the Spring semester will be available on SiS, the Intercampus Student Information System.

Faculty & Student Support Information

Appointments with Faculty Program Coordinators

Students are encouraged to review their transcripts and their curriculum programs. Students may schedule appointments with Faculty Program Coordinators and Faculty and Student Support Specialists to discuss transcript issues, program degree requirements and other academic matters. See the front page of our website at <http://continuinged.uml.edu> to schedule an appointment with an advisor. The appointments may be held in person, online, by phone, or by Skype. Most appointments are held on UML North in the Faculty and Student Support Center. You may also email our Program Coordinators and Faculty Support Specialists.

Registration Information

See Academic Calendar on page 23 for appropriate registration deadlines.

SiS (Student Information System)

SiS is the online software system UMass Lowell students, faculty and staff use to input and access all types of student information.

Assistance with SiS:

Online web tutorials and video screen casts for all student self-service features can be accessed by clicking on the 'Information For' link, and selecting Student at <http://SiS.uml.edu>.

New students to the University must use the mail, fax, walk-in, or new Echo-sign options to register.

Once the new student registration has been processed by the Solution Center, the student will receive an email to his/her personal email account (if provided). The student should go to <http://SiS.uml.edu> and click on the 'Login information' link.

Mail-In Registration:

Fill out the registration form and return it to:

- 1 The Solution Center
220 Pawtucket Street, Suite 131
Lowell, MA 01854-5129
2. For classroom location and other scheduling information, please visit the Student Information System (SiS).

Fax-In Registration:

Fill out the registration form and fax it to (978) 934-2041

Email Registration:

Can be emailed to: thesolutioncenter@uml.edu

Walk-In Registration is held at the Solution Center, currently located at University Crossing, 220 Pawtucket Street, Suite 131, Lowell, MA 01854-5129.

Echo-Sign

Students can submit an electronic registration form by going to: www.uml.edu/registrar/echosign.aspx.

Students are encouraged to use SiS, the Web-Based Self-Service System whenever possible. Students taking online courses must obtain a UML email address as well as a log-on password.

Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour. See information on Financial Aid and Scholarships on our website at <http://continuinged.uml.edu>.

Tuition and Fee Information

	Per Credit Contact Hr.
Undergraduate Face-to-Face Tuition	\$340.00
Undergraduate Audit	\$340.00
Undergraduate Online	\$370.00
Undergraduate Online Audit	\$370.00
Graduate Online, On-Campus, and Off-Campus Courses and Audit (except M.B.A. Online and Education Courses)	\$570.00
Graduate Education Courses	\$470.00
M.B.A. Online Courses	\$630.00
Registration Fee per Term (non-refundable)	\$30.00
Late Fee for Non Payment	\$50.00
Fee for Undergraduate Degree application	\$60.00

Please note: Cost per credit includes access fee (parking after 2 pm and access to Blackboard).

***Note: Some tuitions may vary depending on customization and customer and program requirements.**

Please note: Graduate students will be assessed a "First-Year Student Services Fee" upon matriculation into a graduate degree or certificate program. Please see the Student Financial Services website at <http://www.uml.edu/Tuition-fees/> for more information.

Students who have checks returned due to insufficient funds will be charged a \$30.00 insufficient funds fee.

Student E-Billing Information:

- Students have access to view their bills online at <http://www.uml.edu/thesolutioncenter/money/payment-options.aspx>.
- Students will receive an email notification to their UMass Lowell student email account (e.g., John_Doe@student.uml.edu) when a new bill has been generated.

For more information please go to <http://www.uml.edu/Tuition-fees/Billing-Payment-Information.aspx>

Payment Options

The University of Massachusetts Lowell is *no longer directly* accepting cash, credit cards or debit cards for payment of student tuition, and fees, room and board (if applicable). **(Credit cards not accepted over the phone or via the remit portion of the student invoice.)** The University has secured the services of TMS (Tuition Management Systems) to process all credit **card/debit card transactions**. TMS accepts MasterCard, VISA, Discover, American Express, and e-checks. There will be a 2.5% non-refundable convenience fee assessed to each credit card/debit card transaction. The following payment options are also available for paying a student's tuition and fee bill:

- Online: e-checks, credit card, bank check
- Mail: check, money order, bank check
- Monthly Payment Plan processed through TMS
- International Wire Transfers

Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. All students are advised that the University uses the services of collection agencies authorized under the Commonwealth's Master Service Agreement. Students with a prior semester balance who are not enrolled for the current semester and are referred to a collection agency are held liable for all associated collection fees, which may be substantial.

Directed Studies

Directed Studies, Departmental exams, Practicums, Internships, Applied Music Lessons, etc. are considered Special Programs and, as such, tuition remission, and waivers cannot be accepted.

NOTE: Veterans' Information

We invite all Veterans to contact the Office of Veterans Services at 978-934-2461 or email: Veterans@uml.edu for information on VA and military related educational benefits. Veterans who are Massachusetts residents may attend on campus classes in the Division of Online and Continuing Education credit programs tuition-free provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Proof of Massachusetts Residency (i.e. MA state taxes, mortgage statement, Lease, letter from Town or City Hall, voter's registration, or birthdate copy of Massachusetts Driver's License), proof of Veteran or military status (DD214 or current orders) and an "Application for Massachusetts Categorical Waiver" which can be found on the Solution Center Webpage under forms. The application must be provided every academic year at the time of registration. Waivers are not available for online, blended, off-campus courses or for Directed Studies, Departmental Exams, Practicums and Internships.

International Students

The University of Massachusetts Lowell does not issue a student visa document (i.e., Form I-20 or Form DS-2019, etc.) to students for any Online and Continuing Education Programs. International students presently living in the U.S. who are registering for the Division of Online and Continuing Education classes must provide proof of non-immigrant status. Please submit a copy of your current visa document (Form I-20, Form DS-2019, Form I-797, Employee Authorization Card, etc.), visa stamp and I-94 card, with your registration form. F-1 and J-1 students from another academic institution must obtain the consent of their U.S. sponsoring institution should they wish to enroll for courses at UMass Lowell. Such consent will be reviewed by the International Students & Scholars Office at UMass Lowell. They will not be permitted to be full-time or degree seeking students at UMass Lowell while maintaining F-1 or J-1 student status from another academic institution. Students holding B-1 and B-2 status may not register for any academic classes. Students on F-2 status may not register for full-time classes or be enrolled in a degree program. The ultimate responsibility to know and follow the U.S. Citizenship & Immigration Services regulations rests upon the students themselves. Please contact the International Students and Scholars Office at international@uml.edu with any questions.

Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must mail original authorization forms to UMass Lowell, Student Financial Services Office, University Crossing, 220 Pawtucket Street, Suite M30, Lowell, MA 01854-5110. Copies and/or faxes of tuition waivers cannot be honored. Students receiving company reimbursement must prepay their own tuition. The University does not honor company reimbursement contingent upon grades.

Please note that waivers are not retroactive and do not cover registration and other fees.

Academic Calendar

SPRING 2016

Classes Begin Tuesday, January 19: Make-up classes are held on Fridays.

Monday Classes

January 25
February 1, 8, 16*, 22, 29
*meets on Tues.
March 7, 21, 28
April 4, 11, 22*, 25
*meets on Fri.
Final Exam: May 2

Tuesday Classes

January 19, 26
February 2, 9, 23
*no Tues. class on Feb. 16
March 1, 8, 22, 29
April 5, 12, 19, 26
Final Exam: May 3

Wednesday Classes

January 20, 27
February 3, 10, 17, 24
March 2, 9, 23, 30
April 6, 13, 20
Final Exam: April 27

Thursday Classes

January 21, 28
February 4, 11, 18, 25
March 3, 10, 24, 31
April 7, 14, 21
Final Exam: April 28

Saturday Classes

These classes will be held 9:00 am-Noon.
January 23, 30
February 6, 13, 20, 27
March 5, 12, 26
April 2, 9, 16, 23
Final Exam: April 30

Makeup Dates for Classes (Fridays)

February 19, March 25, April 8

Undergraduate On-Campus Courses (14-week) (Section -001)

January 19- May 3

Online Courses 14-Week (-031)

(Section -031)
January 19- April 30

Accelerated Face-to-Face Courses 10-Week (Section -051)

These classes will be held from 9:00 am to 1:00 pm on Saturdays
January 19-April 2

Accelerated Online Courses 10-Week (Section -061)

January 19-April 2

8-Week Online Courses

Session I: (-081)

January 19-March 12

Session II: (-082)

March 21-May 7

Deadlines for Add/Drop & Withdrawal with "W" Notation

	Add*		Withdraw with "W" Notation	
	Add*	Drop	Undergraduate	Graduate
Full Term Online Courses (14 week) 1/19-4/30 (Section -03X)	1/25	2/1	4/6	4/22
Full Term Face to Face Courses (14 week) 1/19-5/3 (Section -00X)	1/25	2/1	4/6	4/22
Accelerated Online Courses (10-Week) 1/19-4/2 (Section -06X)	1/25	2/1	3/18	3/25
Accelerated Face to Face Courses (10-Week) 1/19-4/2 (Section -05X)	1/25	2/1	3/18	3/25
8-Week Online MBA: Session I 1/19-3/12 (Section -081, 083)	1/25	2/1	n/a	3/4
8-Week Online MBA: Session 2 3/21-5/7 (Section -082, 084)	3/25	4/1	n/a	4/29

*A permission number is required to add a course from 1/26 to 2/1

Add/Drops can be processed in SiS or The Solution Center, University Crossing, 220 Pawtucket Street, Suite 131, Lowell.

Changes from credit to audit and audit to credit status are limited to the add/drop period.

Students withdrawing from any class can do so by using SiS, <http://sis.uml.edu>. Verbal messages to faculty and staff do not constitute official notification.

NOTE: Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend on campus classes in the Division of Online and Continuing Education credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Proof of Massachusetts residency (i.e. MA state taxes, mortgage statement, letter from Town or City Hall or voter's registration), birth date-copy of Massachusetts Driver's License and an "Application for Massachusetts Categorical Tuition Waiver" which can be found on the Solution Center Webpage under forms. This documentation must be provided every academic year at the time of registration. Waivers are not available for online, blended or off-campus courses or for Directed Studies, Departmental Exams, Practicums and Internships.

Refund Schedule for Tuition and Fees

Students who withdraw from the University or drop all of their courses during the add/drop period will receive a 100% adjustment to tuition and fees for the semester except for the following:

- 1) The Division of Online and Continuing Education \$30.00 non-refundable Registration Fee per term.
- 2) Students who are suspended or expelled for disciplinary reasons will forfeit all rights to a tuition and fee adjustment.
- 3) Any book voucher monies advanced to students and used at the bookstore. Students should contact the bookstore at (978) 934-2623 for the refund policy on books and materials purchased directly from them.
- 4) Residence hall charges and meal plan charges follow a different refund schedule. Students should contact the Residence Life Office at (978) 934-5115 for further assistance.

Please note: There are no adjustments to tuition and fee charges if students withdraw or drop classes after the add/drop period of the academic semester.

Student records will be cleared and appropriate refunds will be awarded only after outstanding University bills (library fines, parking fines, etc.) are paid and all University-owned property is returned. If debts remain unpaid, students' academic permanent records will not be released and students will not be readmitted to the University.

Direct Deposit Refunds

Great news! You can now have refunds from UMass Lowell deposited directly into your bank account. For detailed instructions, visit <http://www.uml.edu/thesolutioncenter/money/Refunds/directdeposit.aspx>. Scroll down and select Enroll in Direct Deposit in SiS.

Health Insurance

All matriculating students enrolled in 9 or more credits will be charged for health insurance. Online courses are not considered eligible credits. Students who have comparable health insurance may apply on SiS to waive the charge. Please see the Student Financial Services website at www.uml.edu/thesolutioncenter/bill/health-insurance.aspx for additional information. Please note that all students who withdraw from or drop all of their classes within the first 31 days (calendar days) of the academic semester are not allowed to be enrolled in the University student health

insurance plan. Students taking only online classes will **not** be eligible for the student insurance.

Financial Aid

Financial aid is available for students who qualify. Financial aid consists of grants, scholarships, loans, student employment, waivers, reimbursement programs, and other financing arrangements. Students must be matriculated in an eligible degree or certificate program and be enrolled in courses required for that program to receive financial aid. To apply for financial aid, students must complete the 2015-2016 Free Application for Federal Student Aid (FASFA) online at www.fafsa.ed.gov. Financial aid is applied to students' charges following the end of the add/drop period. Students who withdraw from the University after receiving financial aid will be reviewed to determine the amount of financial aid the student earned prior to withdrawing. Students who withdraw may be required to return some or all financial aid. For more information about financial aid eligibility, please go to www.uml.edu/financialaid/.

Correct Social Security Number/
Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take an education tax deduction.

For additional information on Financial policies and procedures, see www.uml.edu/Tuition-fees/

Email

A significant number of important communications will be delivered to students via University email. Information about the availability of class schedules, course cancellations, grade reports, and financial awards that can be accessed using SiS, the Web-Based Self-Service, will be sent to students via email. UMass Lowell assigns UML email addresses to all students. Students should use their UML accounts with the @student.uml.edu suffix to ensure they receive important communications from the University. Please go to www.uml.edu/student-life/email.aspx and check the student email link.

Wait Listing

You may now put yourself on a wait list through SiS if the course you want is full. When you try to register for a closed course, the system will ask you if you want to be put on a wait list. If space becomes available in a course, the wait list function will add you into the class in the order of your request. Please note that you will receive an email at your UML email address if you are put into the closed course. Check your schedule in SiS to see if you are registered for the closed course. If you no longer wish to register for a course you are wait listed for, you must remove yourself from the wait list through SiS. If you do not remove yourself from the wait list, you run the risk of being registered for a course

and will be responsible for the grade received as well as the tuition and fees incurred. We also encourage you to register for a course that is open for enrollment, instead of using the wait list.

Emergency Contact Information & Notification System

As increased concerns regarding security, safety and campus emergencies of all types affect University campuses nationwide, UMass Lowell has initiated a program that requires students to provide and/or verify Emergency Contact Information on a regular basis. This information is used to contact designated individuals in the event of an emergency involving the student while on campus or when an emergency notification alert to advise our community is released.

When you first log into SiS this semester, you will notice an entry in "Your Holds Summary" indicating Emergency Contact Verification. This "Hold" will prevent all Registration/Add/Drop/Swap a Class activity until you take action to verify your Emergency Contact Information. Release this hold by clicking on the hold and following the instructions. We encourage you to verify this information BEFORE you need to register for classes. For assistance, a help document has been posted on the SiS website.

Emergency Notification

Verify and update your account in the UML Emergency Notification System to get notified in the event of a campus emergency or crSiS at <http://www.uml.edu/myalert>

UCards/Student ID Cards

All students may request a UCard, but for most OCE students a UCard is not needed. OCE students that arrive before 2:00 pm will be charged a parking fee. The UCard primarily works as a student ID and an access card, but benefits also include a debit feature that works at all on-campus dining locations, bookstores, and vending machines, as well as over 25 participating merchants in the Lowell area. OCE students that have classes in labs secured by card access are required to have a UCard. Your instructor will let you know if you need a UCard to access a particular lab. For information on parking, please visit our website at www.uml.edu/ucaps.

Note: If you require a UCard, you will need to visit the UCAPS Office any time after you have registered for classes and after January 4 to have your photo taken and a UCard will be issued to you. UCards are good for life and the first card is free – if you require a replacement card the cost is \$20. Contact the UCAPS Office at (978) 934-2800 or email: UCAPS@uml.edu if you have any questions. UCAPS is located in University Crossing at 220 Pawtucket Street.

What is UPrint?

UPrint is a green initiative that is aimed to reduce paper waste by eliminating unwanted and excess printing. If you are an OCE student and you do not have a UCard, you may purchase a UPrint Card at either the North or South Campus Library. To take advantage of a \$15 printing credit per semester, please follow the instructions at www.uml.edu/uprint.

Institutional Disclosure

The University is required to disclose the availability of various types of information related to Federal programs and mandates under the Higher Education Acts. This information is located on the UML web at: http://continuinged.uml.edu/general/inst_disclosure.htm

Students with Disabilities

Newly accepted students who are requesting an accommodation based on a disability should interview with Student Disability Services. Student Disability Services will assist in making an appropriate accommodation plan. This should be done **before** classes begin. These interviews are scheduled by emailing disability@uml.edu.

Prior to scheduling an Intake Interview, proper documentation must be provided to the Student Disability Services Office.

The University's Annual Campus Crime and Safety Report

Under the Regulations of the Safe and Drug-Free Schools and Communities Act and the Jeanne Clery Act (formerly the Campus Security Act), the University is required annually to distribute to all faculty, staff and students a copy of the Annual Crime Report and the University's Policies and Procedures related to alcohol, other drugs, and sexual assault. These regulations permit us to publish this report electronically, and the current report is available on the internet at <http://www.uml.edu/Police>.

Bookstore

UMass Lowell River Hawk Shop
220 Pawtucket Street, (978) 934-2623

Students taking online courses can order books through the UMass Lowell River Hawk Shop.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Online and Continuing Education (OCE) reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Online and Continuing Education exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, OCE assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Online and Continuing Education – which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities. In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.

This newspaper is printed at no cost to the Commonwealth of Massachusetts. The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex, sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Please note: UMass Lowell is a smoke- and tobacco-free campus.

